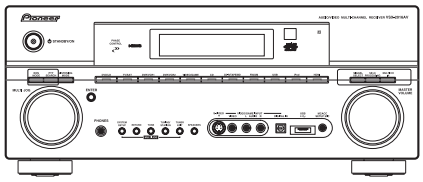
Pioneer sound.vision.soul

Service Manual



VSX-1016V-K

PROVISIONAL

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-1016V-K
VSX-1016V-S
VSX-1016TXV-K
VSX-80TXV
VSX-80TXV-S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
VSX-1016V-K	HYXJ5	AC 220 V to 230 V	
VSX-1016V-S	HYXJ5	AC 220 V to 230 V	
VSX-1016TXV-K	KUXJ	AC 120 V	
VSX-80TXV	KUXJCA	AC 120 V	
VSX-80TXV-S	KUXJCA	AC 120 V	

For details, refer to "Important Check Points for good servicing".

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ⓒ**PIONEER CORPORATION 2006**

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SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

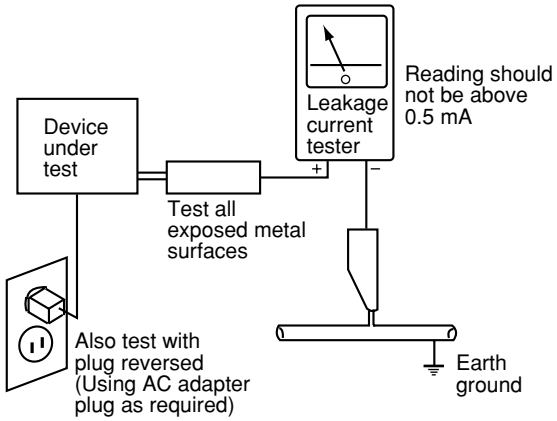
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Reading should not be above 0.5 mA
Leakage current tester
Device under test
+
–
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SPECIFICATIONS

■ For VSX-1016V-K and VSX-1016V-S

Specifications

Continuous Power Output – Stereo
Front. . . . . 150 W + 150 W (DIN 1 kHz, THD 1 %, 6 Ω)
Continuous Power Output – Multichannel
(DIN 1 kHz, THD 1 %, 6 Ω)
Front. . . . . 150 W + 150 W
Center . . . . . 150 W
Surround . . . . . 150 W + 150 W
Surround back . . . . . 150 W + 150 W

Rated Power Output – Stereo
(20 Hz to 20 kHz, 0.09 %, 8 Ω) . . . . . 140 W+140 W

- The above specifications are applicable when the power supply is 230V.

Audio Section

Input (Sensitivity/Impedance)
LINE . . . . . 335 mV/47 kΩ
Frequency Response (LINE). . . . . 5 Hz to 100 000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)
REC . . . . . 335 mV/2.2 kΩ
Tone Control
BASS . . . . . ± 6 dB (100 Hz)
TREBLE . . . . . ± 6 dB (10 kHz)
LOUDNESS. . . . . +4 dB / +2 dB (100Hz/10 kHz)
(at volume position –40 dB)
Signal-to-Noise Ratio (IHF, short circuited, A network)
LINE. . . . . 103 dB
Signal-to-Noise Ratio
[DIN (continuous rated power output/50mW)]
LINE. . . . . 92 dB / 65 dB

Composite Video / S-Video Section

Input (Sensitivity/Impedance) 1 Vp-p/75Ω
Output (Level/Impedance) 1 Vp-p/75Ω
Signal-to-Noise Ratio . . . . . 65 dB
Frequency Response . . . . . 5 Hz to 10 MHz

Component Video Section

Input (Sensitivity/Impedance) 1 Vp-p/75Ω
Output (Level/Impedance) 1 Vp-p/75Ω
Signal-to-Noise Ratio . . . . . 65 dB
Frequency Response . . . . . 5 Hz to 100 MHz

FM Tuner Section

Frequency Range . . . . . 87.5 MHz to 108 MHz
Usable Sensitivity . . . . . Mono: 15.2 dBf, IHF (1.6 µV/75Ω)
50 dB Quieting Sensitivity . . . . . Mono: 20.2 dBf
Stereo: 41.2 dBf
Sensitivity (DIN) . . . . . Mono: 1.1 µV (S/N 26 dB)
Stereo: 50 µV (S/N 46 dB)
Signal-to-Noise Ratio . . . . . Mono: 76 dB (at 85 dBf)
Stereo: 72 dB (at 85 dBf)
Signal-to-Noise Ratio (DIN) . . . . . Mono: 62 dB
Stereo: 58 dB
Distortion . . . . . Stereo: 0.6% (1 kHz)
Alternate Channel Selectivity . . . . . 70 dB (400 kHz)
Stereo Separation . . . . . 40 dB (1 kHz)
Frequency Response . . . . . 30 Hz to 15 kHz ± 1dB
Antenna Input . . . . . 75Ω unbalanced

AM Tuner Section

Frequency Range . . . . . 531 kHz to 1602 kHz (9 kHz step)
Sensitivity (IHF, Loop antenna) . . . . . 350 µV/m
Selectivity . . . . . 30 dB
Signal-to-Noise Ratio . . . . . 50 dB
Antenna . . . . . Loop antenna

Miscellaneous

Power Requirements. . . AC 220 V to 230 V, 50 Hz / 60 Hz
Power Consumption . . . . . 450 W
In standby . . . . . Less than 0.5 W
Dimensions . . . . . 420 (W) mm x 173 (H) mm x 465 (D) mm
Weight (without package). . . . . 15.0 kg

Furnished Parts

Setup microphone (for Auto MCACC setup). 1
AA/LR6 dry cell batteries. 2
Remote control unit. 1
AM loop antenna 1
FM wire antenna 1
Warranty card 1
These operating instructions

Note

- Specifications and the design are subject to possible modifications without notice, due to improvements.

■ For VSX-80TXV, VSX-80TXV-S and VSX-1016TXV-K

Amplifier section (VSX-80TX and VSX-80TXV-S)

Continuous average power output of 110 watts* per channel, min., at 8 ohms, from 20 Hz to 20 000 Hz with no more than 0.09 %** total harmonic distortion (front).

Continuous Power Output (20 Hz to 20 kHz, 8 Ω, 0.09 %)
Front. . . . . .110 W + 110 W
Center . . . . . 110 W
Surround . . . . . 110 W + 110 W
Surround back . . . . . .110 W + 110 W

Continuous Power Output (1 kHz, 6 Ω, 1.0 %)
Front. . . . . .150 W + 150 W
Center . . . . . 150 W
Surround . . . . . 150 W + 150 W
Surround back . . . . . .150 W + 150 W

Total harmonic distortion . . . . . 0.09 %
(20 Hz to 20 kHz, 110 W, 8 Ω)

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers
** Measured by Audio Spectrum Analyzer

Amplifier section (VSX-1016TXV-K)

Continuous average power output of 120 watts* per channel, min., at 8 ohms, from 20 Hz to 20 000 Hz with no more than 0.2 %** total harmonic distortion (front).

Continuous Power Output (20 Hz to 20 kHz, 8 Ω, 0.2 %)
Front. . . . . .120 W + 120 W
Center . . . . . 120 W
Surround . . . . . 120 W + 120 W
Surround back . . . . . .120 W + 120 W

Continuous Power Output (1 kHz, 6 Ω, 1.0 %)
Front. . . . . .120 W + 120 W
Center . . . . . 120 W
Surround . . . . . 120 W + 120 W
Surround back . . . . . .120 W + 120 W

Total harmonic distortion . . . . . 0.2 %
(20 Hz to 20 kHz, 120 W, 8 Ω)

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers
** Measured by Audio Spectrum Analyzer

Audio Section

Input (Sensitivity/Impedance)
LINE . . . . . 335 mV/47 kΩ
Frequency Response (LINE) . . 5 Hz to 100 000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)
REC . . . . . 335 mV/2.2 kΩ
Tone Control
BASS . . . . . ± 6 dB (100 Hz)
TREBLE . . . . . ± 6 dB (10 kHz)
LOUDNESS . . . . . +4 dB / +2 dB (100Hz/10 kHz)
(at volume position –40 dB)
Signal-to-Noise Ratio (IHF, short circuited, A network)
LINE . . . . . 103 dB
Signal-to-Noise Ratio [EIA, at 1W (1 kHz)]
LINE . . . . . 83 dB

Composite Video / S-Video Section

Input (Sensitivity/Impedance) . . . . . 1 Vp-p/75 Ω
Output (Level/Impedance) . . . . . 1 Vp-p/75 Ω
Signal-to-Noise Ratio . . . . . 65 dB
Frequency Response . . . . . 5 Hz to 10 MHz

Component Video Section

Input (Sensitivity/Impedance) . . . . . 1 Vp-p/75 Ω
Output (Level/Impedance) . . . . . 1 Vp-p/75 Ω
Signal-to-Noise Ratio . . . . . 65 dB
Frequency Response . . . . . 5 Hz to 100 MHz

FM Tuner Section

Frequency Range . . . . . 87.5 MHz to 108 MHz
Usable Sensitivity . . . . . Mono: 13.2 dBf, IHF (1.3 μV/75 Ω)
50 dB Quieting Sensitivity . . . . . Mono: 20.2 dBf
Stereo: 38.6 dBf
Signal-to-Noise Ratio . . . . . Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Distortion . . . . . Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity . . . . . 60 dB (400 kHz)
Stereo Separation . . . . . 40 dB (1 kHz)
Frequency Response . . . . . 30 Hz to 15 kHz ± 1 dB
Antenna Input . . . . . 75 Ω unbalanced

AM Tuner Section

Frequency Range . . . . . .530 kHz to 1700 kHz
Sensitivity (IHF, Loop antenna) . . . . . 350 μV/m
Selectivity . . . . . 25 dB
Signal-to-Noise Ratio . . . . . 50 dB
Antenna . . . . . Loop antenna

Miscellaneous

Power Requirements . . . . . AC 120 V, 60 Hz
Power Consumption . . . . . .490 W, 650 VA
In standby . . . . . 0.5 W
AC Outlet . . . . . (switched) 100 W MAX.
Dimensions . . . . . 420 (W) mm x 173 (H) mm x 466 (D) mm
(16 9/16 (W) in. x 6 13/16 (H) in. x 18 3/8 (D) in.)
Weight (without package) . . . . . 15.0 kg (33 lbs 1 oz)

Furnished Parts

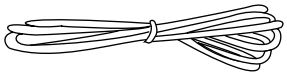
Setup microphone (for Auto MCACC setup) 1
AA/IEC R6P dry cell batteries. 2
Remote control unit 1
AM loop antenna. 1
FM wire antenna 1
Warranty card 1
These operating instructions

Note

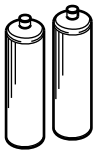
- Specifications and the design are subject to possible modifications without notice, due to improvements.

● Accessories

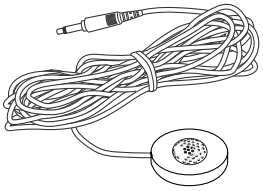
AM Loop Antenna
(ATB7013)



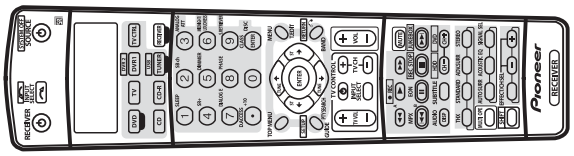
FM Wire Antenna
(ADH7030)



AA/LR6 Dry Cell Batteries
(VEM1021: VSX-1016V-K,S)
AA/IED R6P Dry Cell Batteries
(VEM1031: Other models)



Setup Microphone
(for Auto MCACC setup)
(APM7008)



Remote Control Unit
(AXD7436: VSX-1016V-K, S)
(AXD7435: VSX-1016TXV-K)
(AXD7434: VSX-80TXV, VSX-80TXV-S)

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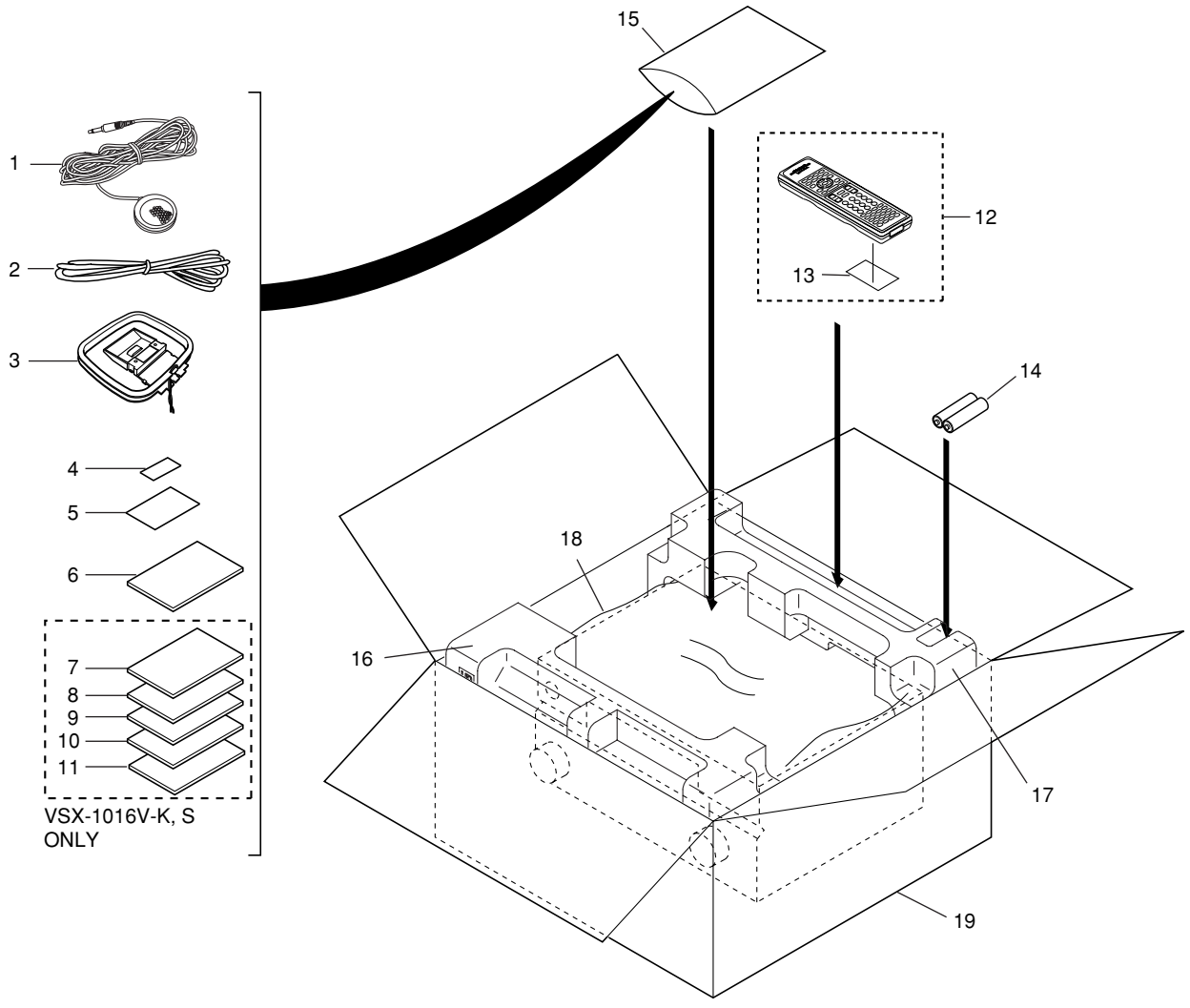
2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

2.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

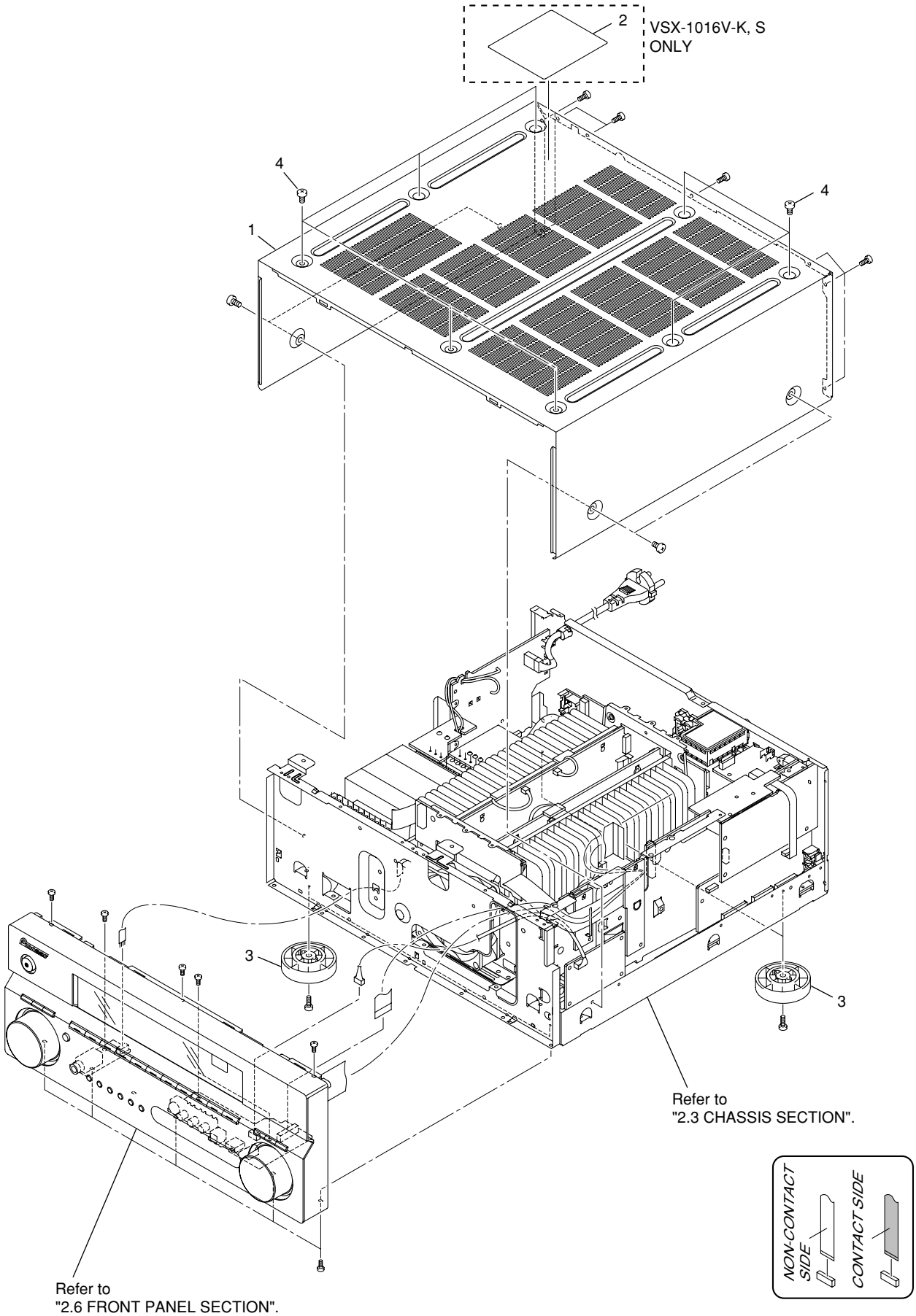
Mark	No.	Description	Part No.
	1	Setup Microphone (for Auto MCACC setup)	APM7008
	2	FM Wire Antenna	ADH7030
	3	AM Loop Antenna	ATB7013
NSP	4	Warranty Card	See Contrast table (2)
	5	Caution Sheet(Spanish/English)	ARM7083
	6	Operating Instructions (English)	See Contrast table (2)
	7	Operating Instructions (French)	See Contrast table (2)
	8	Operating Instructions (German)	See Contrast table (2)
	9	Operating Instructions (Italian)	See Contrast table (2)
	10	Operating Instructions (Spanish)	See Contrast table (2)
	11	Operating Instructions (Dutch)	See Contrast table (2)
	12	Remote Control Unit	See Contrast table (2)
	13	Battery Cover	XZN3140
NSP	14	Dry Cell Battery	See Contrast table (2)
NSP	15	Polyethylene Bag	See Contrast table (2)
	16	Front Pad	AHA7456
	17	Rear Pad	AHA7457
	18	Packing Sheet	RHC1023
	19	Packing Case	See Contrast table (2)

(2) CONTRAST TABLE

VSX-1016V-K/HYXJ5, VSX-1016V-S/HYXJ5, VSX-1016TXV-K/KUXJ, VSX-80TXV/KUXJCA and VSX-80TXV-S/KUXJCA are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-1016V-K /HYXJ5	VSX-1016V-S /HYXJ5	VSX-1016TXV-K /KUXJ	VSX-80TXV /KUXJCA	VSX-80TXV-S /KUXJCA
NSP	4	Warranty Card	ARY7065	ARY7065	ARY7045	ARY7007	ARY7007
	6	Operating Instructions (English)	ARB7359	ARB7359	ARB7360	ARB7361	ARB7361
	7	Operating Instructions (French)	ARC7701	ARC7701	Not used	Not used	Not used
	8	Operating Instructions (German)	ARC7702	ARC7702	Not used	Not used	Not used
	9	Operating Instructions (Italian)	ARC7703	ARC7703	Not used	Not used	Not used
	10	Operating Instructions (Spanish)	ARC7704	ARC7704	Not used	Not used	Not used
	11	Operating Instructions (Dutch)	ARC7705	ARC7705	Not used	Not used	Not used
	12	Remote Control Unit	AXD7436	AXD7436	AXD7435	AXD7434	AXD7434
NSP	14	Dry Cell Battery AA/LR6	VEM1021	VEM1021	Not used	Not used	Not used
NSP	14	Dry Cell Battery AA/IEC R6P	Not used	Not used	VEM1031	VEM1031	VEM1031
NSP	15	Polyethylene Bag	AHG7132	AHG7132	AHG7117	AHG7117	AHG7117
	19	Packing Case 1016KHY	AHD8485	Not used	Not used	Not used	Not used
	19	Packing Case 1016SHY	Not used	AHD8427	Not used	Not used	Not used
	19	Packing Case 1016KKU	Not used	Not used	AHD8440	Not used	Not used
	19	Packing Case 80KKU	Not used	Not used	Not used	AHD8438	Not used
	19	Packing Case 80SKU	Not used	Not used	Not used	Not used	AHD8439

2.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

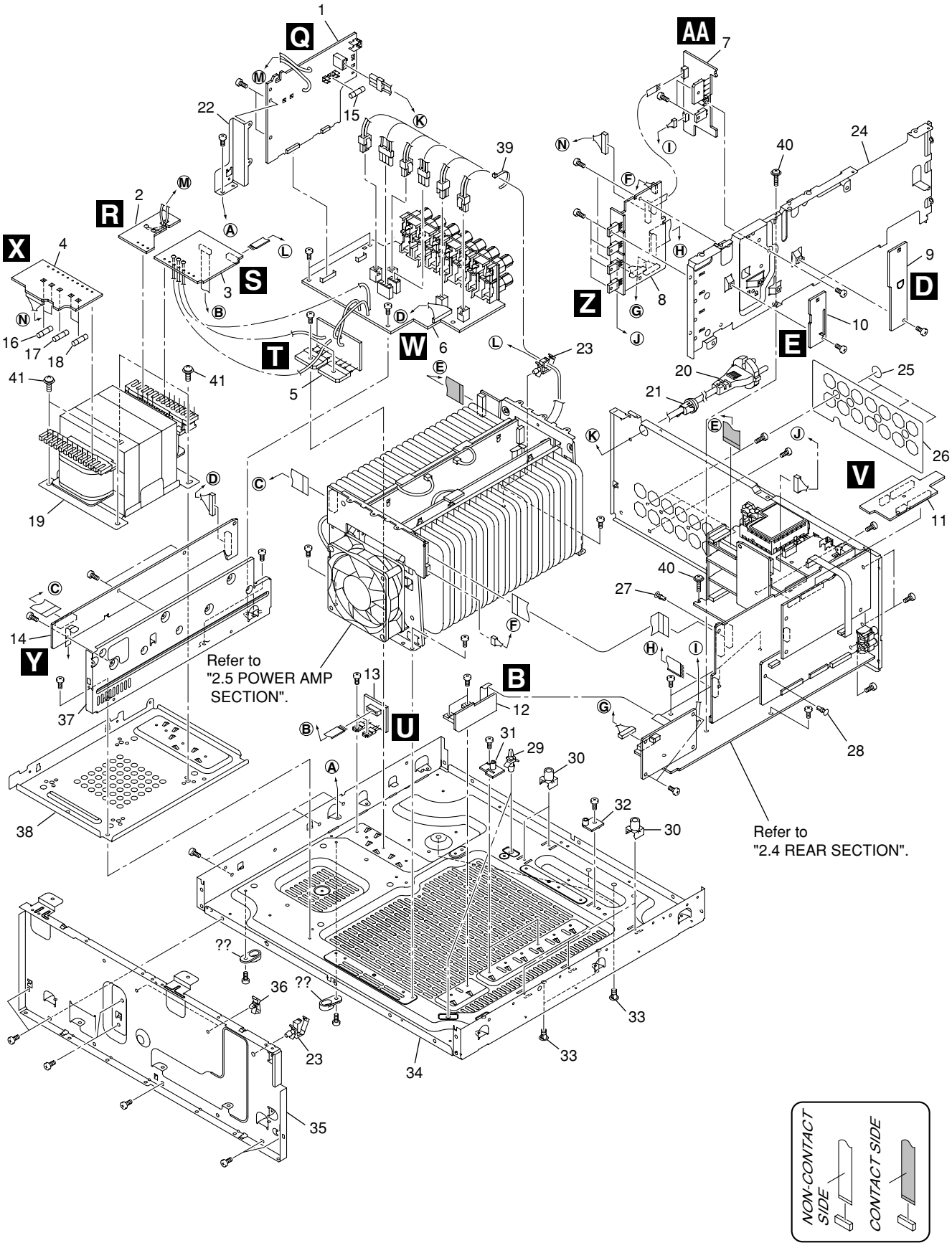
Mark	No.	Description	Part No.
	1	Bonnet	See Contrast table (2)
	2	Label (WEEE)	See Contrast table (2)
	3	Insulator	See Contrast table (2)
	4	Screw	See Contrast table (2)
	5	Screw	BBT30P100FCC
	6	Screw	BBZ30P080FCC
	7	Screw	IBP30P090FCC
	8	Screw	PMZ30P060FCC
	9	Screw	PPZ30P080FNI

(2) CONTRAST TABLE

VSX-1016V-K/HYXJ5, VSX-1016V-S/HYXJ5, VSX-1016TXV-K/KUXJ, VSX-80TXV/KUXJCA and VSX-80TXV-S/KUXJCA are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-1016V-K /HYXJ5	VSX-1016V-S /HYXJ5	VSX-1016TXV-K /KUXJ	VSX-80TXV /KUXJCA	VSX-80TXV-S /KUXJCA
	1	Bonnet 81B	AZN8021	Not used	AZN8021	AZN8021	Not used
	1	Bonnet 2016S	Not used	AZN8020	Not used	Not used	AZN8020
	2	Label (WEEE)	ARW7322	ARW7322	Not used	Not used	Not used
	3	Insulator	PNW2766	PNW2766	PNW2766	AMR7198	AMR7198
	4	Screw	BCZ40P060FTB	BCZ40P060FNI	BCZ40P060FTB	BCZ40P060FTB	BCZ40P060FNI

2.3 CHASSIS SECTION



(1) CHASSIS SECTION PARTS LIST

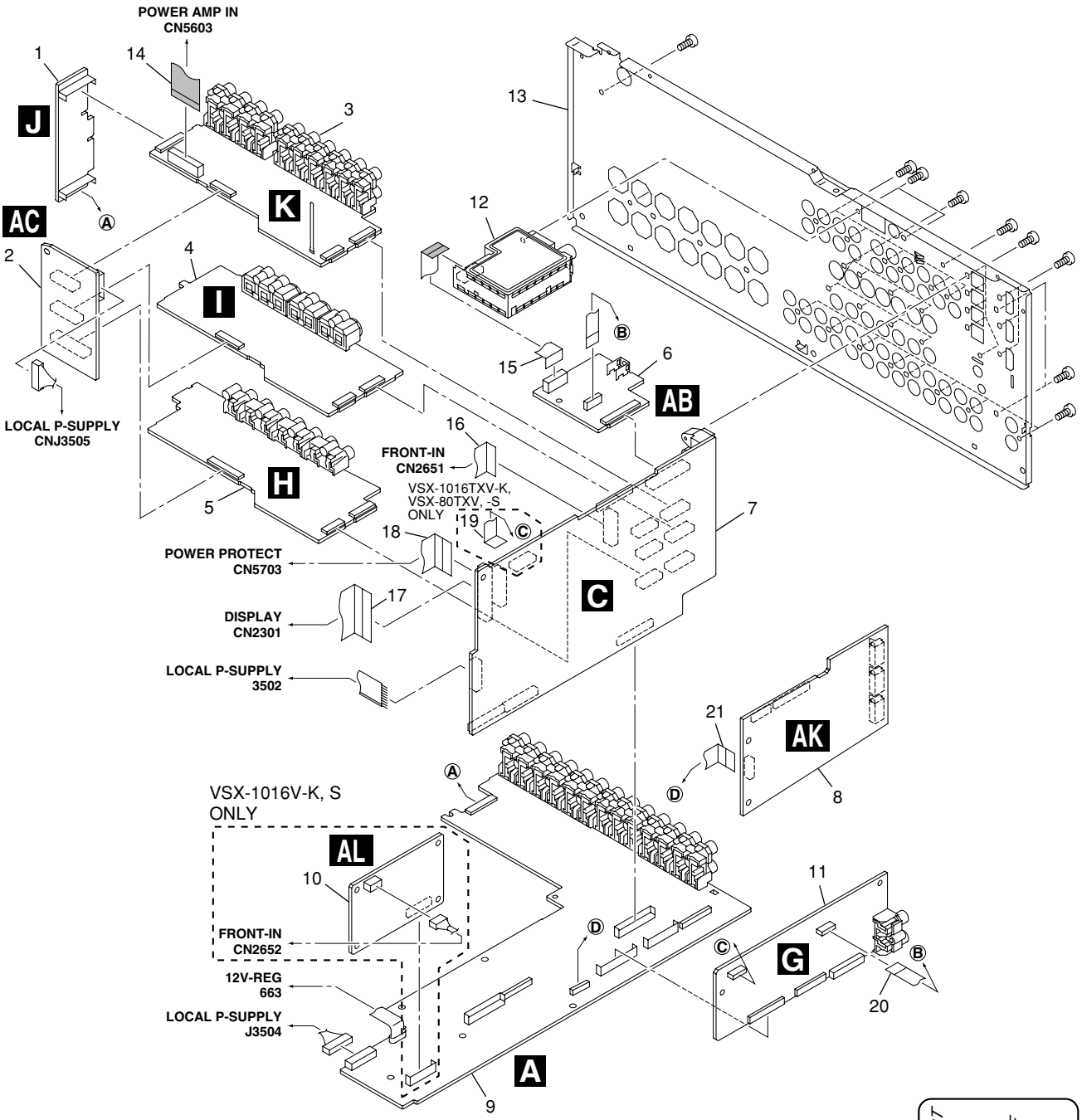
Mark	No.	Description	Part No.
	1	PRIMARY Assy	See Contrast table (2)
	2	TRANS 1 Assy	AWX9038
	3	TRANS 2-1 Assy	See Contrast table (2)
	4	TRANS 2-2 Assy	AWX9062
	5	DIODE 1 Assy	AWX9060
	6	PS/SP Assy	See Contrast table (2)
	7	DC/DC Assy	AWX9098
	8	LOCAL P-SUPPLY Assy	See Contrast table (2)
	9	GUARD-C Assy	AWX9051
	10	GUARD-F Assy	AWX9070
	11	BRIDGE 1-L Assy	AWX9079
	12	12V-REG Assy	AWX9014
	13	VH TR Assy	AWX9061
	14	TRANS SIDE Assy	AWX9056
⚠	15	Fuse (FU1)	See Contrast table (2)
⚠	16	Fuse (FU7,FU8)	See Contrast table (2)
⚠	17	Fuse (FU4)	See Contrast table (2)
⚠	18	Fuse (FU5,FU6)	See Contrast table (2)
⚠	19	Power Transformer (T1501)	See Contrast table (2)
⚠	20	AC Power Cord	See Contrast table (2)
⚠	21	Cord Stopper	See Contrast table (2)
	22	Primary Angle 56	ANG7526
	23	Wire Saddle	DEC1450
	24	DSP Shield 1016	ANG7548
	25	Cushion Circle 14B	AED7081
	26	SP Sheet 2016	AEC7560
	27	Nyron Rivet	AEC7408
	28	Nyron Rivet	AEC7406
	29	Locking Card Spacer	PNW2917
	30	PCB Mold	AMR2534
	31	Inter Holder A	AMR7500
	32	Inter Holder B	AMR7501
	33	Card Spacer	DNK2769
NSP	34	Under Base 2016	ANA7189
NSP	35	Panel Stay 2016	AND7082
	36	Side Clamp	DEC2007
	37	Under Beam V1	ANG7478
NSP	38	Trans Frame 74	ANG7539
NSP	39	Binder	ZCA-BK1
	40	Screw 3x15	ABA7100
	41	Screw 4x12	ABA7109
	42	Primary Barrier	See Contrast table (2)
	43	Shield Case	See Contrast table (2)
	44	Bridge Spacer	AEB7201
	45	Earth plate	See Contrast table (2)
	46	Screw	BBT30P100FCC
	47	Screw	BBZ30P080FCC
	48	Screw	IBP30P090FCC
	49	Screw	PMZ30P060FCC
	50	Screw	PPZ30P080FNI

(2) CONTRAST TABLE

VSX-1016V-K/HYXJ5, VSX-1016V-S/HYXJ5, VSX-1016TXV-K/KUXJ, VSX-80TXV/KUXJCA and VSX-80TXV-S/KUXJCA are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-1016V-K /HYXJ5	VSX-1016V-S /HYXJ5	VSX-1016TXV-K /KUXJ	VSX-80TXV /KUXJCA	VSX-80TXV-S /KUXJCA
	1	PRIMARY Assy	AWX9086	AWX9086	AWX9085	AWX9085	AWX9085
	3	TRANS 2-1 Assy	AWX9059	AWX9059	AWX9058	AWX9058	AWX9058
	6	PS/SP Assy	AWX9108	AWX9108	AWX9054	AWX9054	AWX9054
	8	LOCAL P-SUPPLY Assy	AWX9068	AWX9068	AWX9065	AWX9065	AWX9065
⚠	15	Fuse (FU1: T5 A L 250 V)	REK1029	REK1029	Not used	Not used	Not used
⚠	15	Fuse (FU1: 10 A/125 V)	Not used	Not used	REK1154	REK1154	REK1154
⚠	16	Fuse (FU7,FU8: T2.5 A L 250 V)	REK1026	REK1026	Not used	Not used	Not used
⚠	16	Fuse (FU7,FU8: 2.5 A/125 V)	Not used	Not used	REK1146	REK1146	REK1146
⚠	17	Fuse (FU4: T4 A L 250 V)	REK1028	REK1028	Not used	Not used	Not used
⚠	17	Fuse (FU4: 5 A/125 V)	Not used	Not used	REK1067	REK1067	REK1067
⚠	18	Fuse (FU5,FU6: T800 mA L 250 V)	REK1021	REK1021	Not used	Not used	Not used
⚠	18	Fuse (FU5,FU6: 1.25 A/125 V)	Not used	Not used	REK1143	REK1143	REK1143
⚠	19	Power Transformer (T1501)	ATS7408	ATS7408	ATS7407	ATS7407	ATS7407
⚠	20	AC Power Cord	VDG1080	VDG1080	VDG1075	VDG1075	VDG1075
⚠	21	Cord Stopper	CM-22B	CM-22B	CM-22C	CM-22C	CM-22C
	42	Primary Barrier	AEC7569	AEC7569	Not used	Not used	Not used
	43	Shield Case	AMR7526	AMR7526	Not used	Not used	Not used
	45	Earth Plate	Not used	AKB7062	Not used	Not used	AKB7062

2.4 REAR SECTION



(1) REAR SECTION PARTS LIST

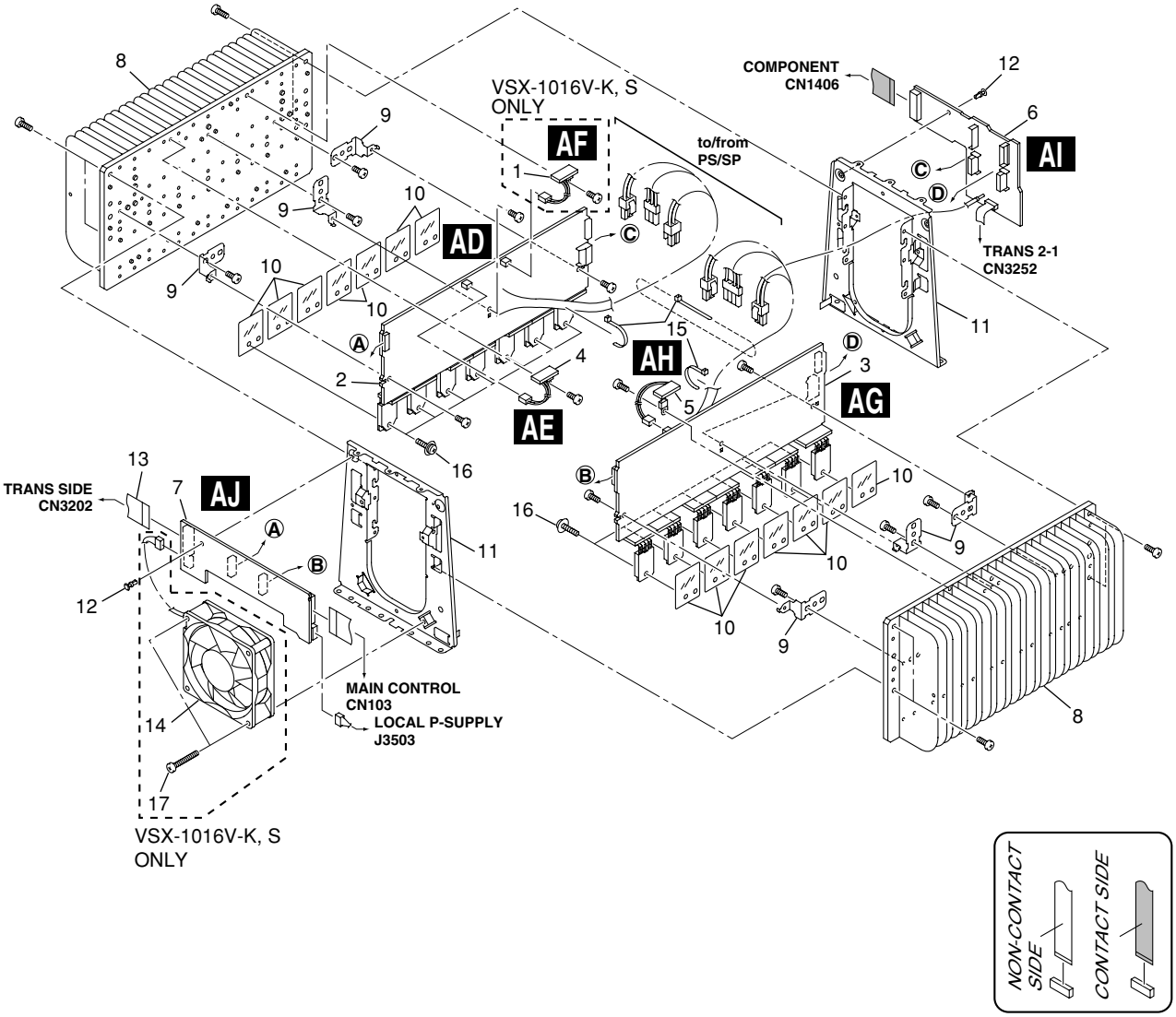
Mark	No.	Description	Part No.
	1	BRIDGE 2 Assy	AWX9050
	2	VIDEO CONNECT Assy	AWX9069
	3	COMPONENT Assy	See Contrast table (2)
	4	S-VIDEO Assy	See Contrast table (2)
	5	COMPOSITE Assy	See Contrast table (2)
	6	IR I/O Assy	See Contrast table (2)
	7	MAIN CONTROL Assy	See Contrast table (2)
	8	HDMI & DVC Assy	AWQ7036
	9	AUDIO IN Assy	See Contrast table (2)
	10	USB Assy	See Contrast table (2)
	11	DSP Assy	See Contrast table (2)
	12	FM/AM Tuner Unit	See Contrast table (2)
	13	Rear Panel	See Contrast table (2)
	14	19P FFC/60V (J58)	ADD7535
	15	11P FFC/60V (J59)	ADD7536
	16	17P FFC/60V (J54)	ADD7540
	17	29P FFC/60V (J55)	ADD7532
	18	19P FFC/60V (J56)	ADD7533
	19	12P FFC/60V (J52)	See Contrast table (2)
	20	10P FFC/60V (J51)	ADD7528
	21	9P FFC/60V (J53)	ADD7547
	22	Screw	BBT30P100FCC
	23	Screw	BBZ30P080FCC
	24	Screw	IBP30P090FCC
	25	Screw	PMZ30P060FCC
	26	Screw	PPZ30P080FNI

(2) CONTRAST TABLE

VSX-1016V-K/HYXJ5, VSX-1016V-S/HYXJ5, VSX-1016TXV-K/KUXJ, VSX-80TXV/KUXJCA and VSX-80TXV-S/KUXJCA are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-1016V-K /HYXJ5	VSX-1016V-S /HYXJ5	VSX-1016TXV-K /KUXJ	VSX-80TXV /KUXJCA	VSX-80TXV-S /KUXJCA
	3	COMPONENT Assy	AWX9031	AWX9031	AWX9032	AWX9032	AWX9032
	4	S-VIDEO Assy	AWX9099	AWX9099	AWX9099	AWX9105	AWX9105
	5	COMPOSITE Assy	AWX9089	AWX9089	AWX9089	AWX9090	AWX9090
	6	IR I/O Assy	AWX9067	AWX9067	AWX9101	AWX9066	AWX9066
	7	MAIN CONTROL Assy	AWX9018	AWX9018	AWX9016	AWX9017	AWX9017
	9	AUDIO IN Assy	AWX9022	AWX9022	AWX9027	AWX9088	AWX9088
	10	USB Assy	AWX8704	AWX8704	Not used	Not used	Not used
	11	DSP Assy	AWX8572	AWX8572	AWX8699	AWX8699	AWX8699
	12	FM/AM Tuner Unit	AXX7170	AXX7170	AXX7172	AXX7172	AXX7172
	13	Rear Panel 101KSHY	ANC8446	Not used	Not used	Not used	Not used
	13	Rear Panel 1016SHY	Not used	ANC8383	Not used	Not used	Not used
	13	Rear Panel 1016KKU	Not used	Not used	ANC8386	Not used	Not used
	13	Rear Panel 80KKU	Not used	Not used	Not used	ANC8384	Not used
	13	Rear Panel 80SKU	Not used	Not used	Not used	Not used	ANC8385
	19	12P FFC/60V (J52)	Not used	Not used	ADD7529	ADD7529	ADD7529

2.5 POWER AMP SECTION



(1) POWER AMP SECTION PARTS LIST

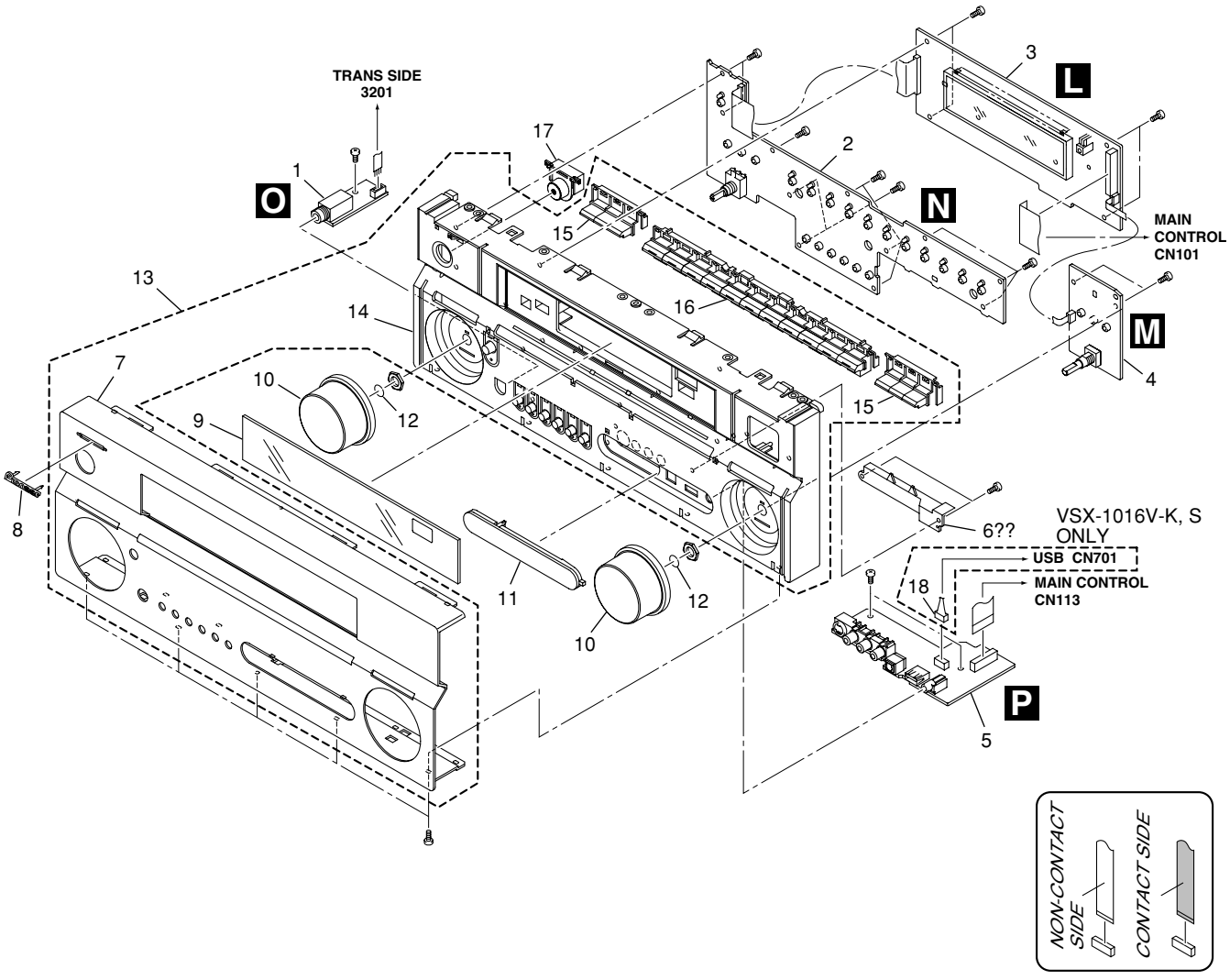
Mark	No.	Description	Part No.
	1	POSI 2-L Assy	See Contrast table (2)
	2	POWER AMP-L Assy	See Contrast table (2)
	3	POWER AMP-R Assy	See Contrast table (2)
	4	POSI 1-L Assy	See Contrast table (2)
	5	POSI 1-R Assy	See Contrast table (2)
	6	POWER AMP IN Assy	AWX9075
	7	POWER PROTECT Assy	See Contrast table (2)
NSP	8	Heat Sink 45	ANH7152
	9	PCB Angle 45	ANG7406
	10	Mica Sheet 45	AEE7047
	11	H.S. Angle 2016	ANG7547
	12	Nyron Rivet	AEC7408
	13	17P FFC/60V (J57)	ADD7534
⚠	14	DC Fan Motor	See Contrast table (2)
NSP	15	Binder	ZCA-BK1
	16	Screw 3X19	ABA7085
	17	Screw	See Contrast table (2)
	18	Screw	BBT30P100FCC
	19	Screw	BBZ30P080FCC
	20	Screw	IBP30P090FCC
	21	Screw	PMZ30P060FCC
	22	Screw	PPZ30P080FNI

(2) CONTRAST TABLE

VSX-1016V-K/HYXJ5, VSX-1016V-S/HYXJ5, VSX-1016TXV-K/KUXJ, VSX-80TXV/KUXJCA and VSX-80TXV-S/KUXJCA are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-1016V-K /HYXJ5	VSX-1016V-S /HYXJ5	VSX-1016TXV-K /KUXJ	VSX-80TXV /KUXJCA	VSX-80TXV-S /KUXJCA
	1	POSI 2-L Assy	AWX9082	AWX9082	Not used	Not used	Not used
	2	POWER AMP-L Assy	AWX9072	AWX9072	AWX9071	AWX9071	AWX9071
	3	POWER AMP-R Assy	AWX9073	AWX9073	AWX9106	AWX9106	AWX9106
	4	POSI 1-L Assy	AWX9081	AWX9081	AWX9080	AWX9080	AWX9080
	5	POSI 1-R Assy	AWX9084	AWX9084	AWX9083	AWX9083	AWX9083
	7	POWER PROTECT Assy	AWX9077	AWX9077	AWX9076	AWX9076	AWX9076
⚠	14	DC Fan Motor	AXM7029	AXM7029	Not used	Not used	Not used
	17	Screw	BBZ30P300FTC	BBZ30P300FTC	Not used	Not used	Not used

2.6 FRONT PANEL SECTION



(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	HEADPHONE Assy	AWX9049
	2	MULTI JOG Assy	See Contrast table (2)
	3	DISPLAY Assy	See Contrast table (2)
	4	VOLUME Assy	See Contrast table (2)
	5	FRONT-IN Assy	See Contrast table (2)
	6	???	???
	7	F Panel	See Contrast table (2)
	8	Pioneer Name Plate	See Contrast table (2)
	9	Window	See Contrast table (2)
	10	Rotary Knob	See Contrast table (2)
	11	Input Cover	See Contrast table (2)
	12	Ring	ABH7213
	13	Panel Assy	See Contrast table (2)
	14	P Base	See Contrast table (2)
	15	Side Button	See Contrast table (2)
NSP	16	Func BTN Assy	See Contrast table (2)
	17	STDBY BTN Assy	See Contrast table (2)
	18	4P Shield Cable (J61)	See Contrast table (2)
	19	Screw	BBT30P100FCC
	20	Screw	BBZ30P080FCC
	21	Screw	IBP30P090FCC
	22	Screw	PMZ30P060FCC
	23	Screw	PPZ30P080FNI

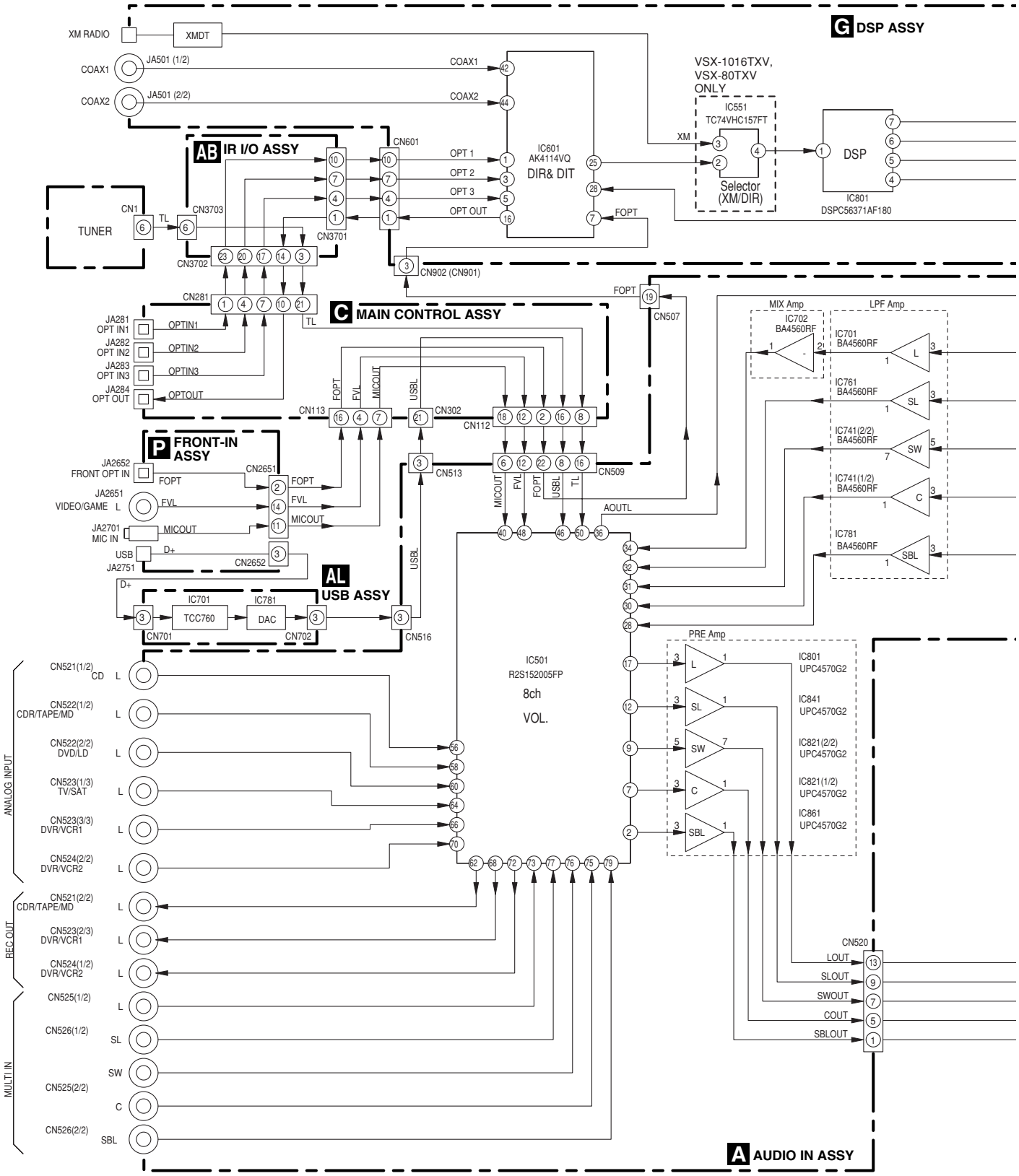
(2) CONTRAST TABLE

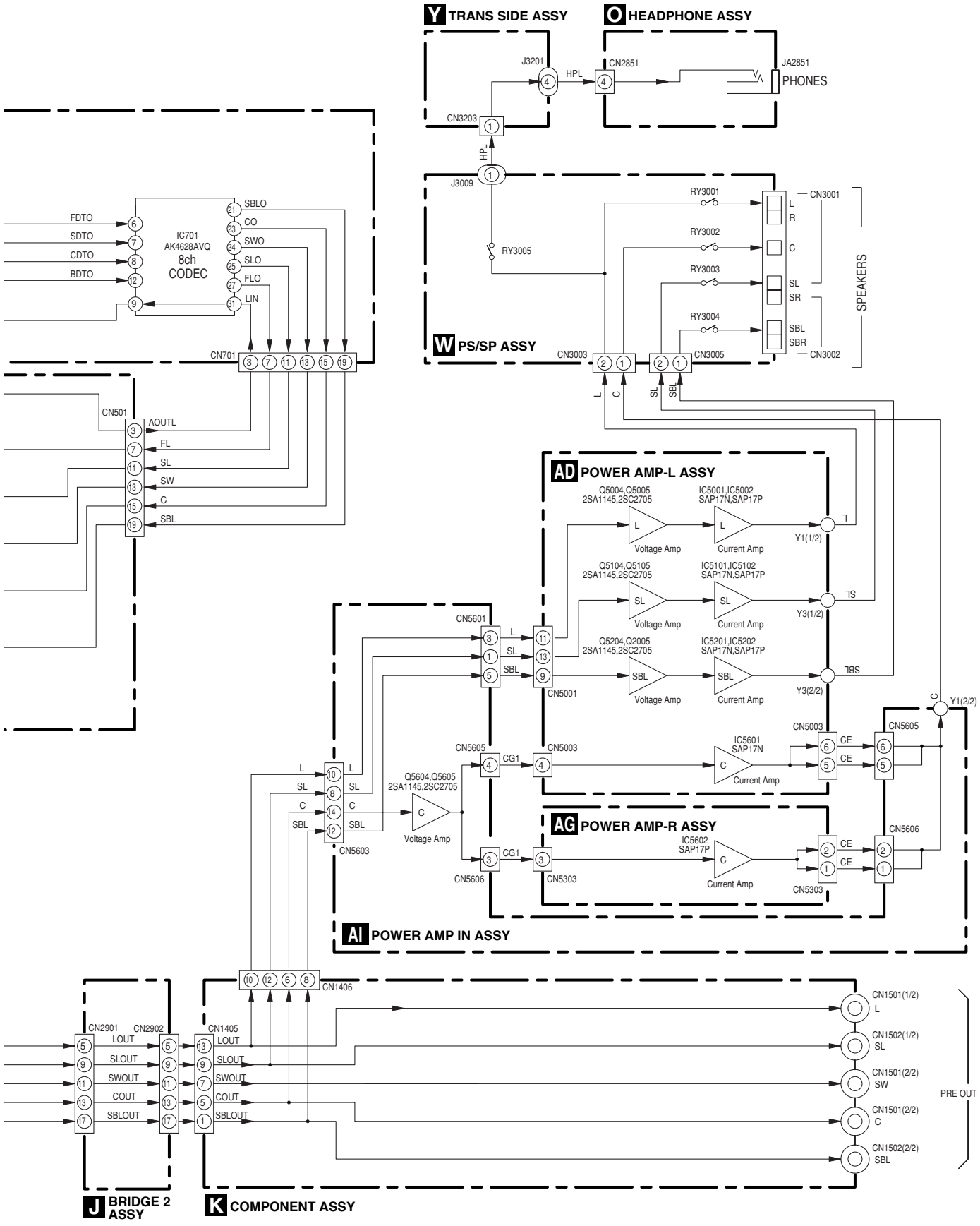
VSX-1016V-K/HYXJ5, VSX-1016V-S/HYXJ5, VSX-1016TXV-K/KUXJ, VSX-80TXV/KUXJCA and VSX-80TXV-S/KUXJCA are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-1016V-K /HYXJ5	VSX-1016V-S /HYXJ5	VSX-1016TXV-K /KUXJ	VSX-80TXV /KUXJCA	VSX-80TXV-S /KUXJCA
	2	MULTI JOG Assy	AWX9046	AWX9113	AWX9046	AWX9046	AWX9113
	3	DISPLAY Assy	AWX9104	AWX9104	AWX9042	AWX9043	AWX9043
	4	VOLUME Assy	AWX9044	AWX9111	AWX9044	AWX9044	AWX9111
	5	FRONT-IN Assy	AWX9048	AWX9048	AWX9047	AWX9047	AWX9047
	7	F Panel 1016KHY	AMB7945	Not used	Not used	Not used	Not used
	7	F Panel 1016SHY	Not used	AMB7912	Not used	Not used	Not used
	7	F Panel 1016KKU	Not used	Not used	AMB7915	Not used	Not used
	7	F Panel 80KKU	Not used	Not used	Not used	AMB7913	Not used
	7	F Panel 80SKU	Not used	Not used	Not used	Not used	AMB7914
	8	Pioneer Badge B	XAM3006	Not used	XAM3006	Not used	Not used
	8	Pioneer Name plate	Not used	VAM1129	Not used	VAM1109	VAM1129
	9	Window 1016HY	AAK8332	AAK8332	Not used	Not used	AAK8332
	9	Window 1016KU	Not used	Not used	AAK8348	Not used	Not used
	9	Window 80K	Not used	Not used	Not used	AAK8333	Not used
	10	Rotary Knob B	AAA7024	Not used	AAA7024	AAA7024	Not used
	10	Rotary Knob P	Not used	AAA7033	Not used	Not used	AAA7033
	11	Input Cover V3K	XAK3532	Not used	Not used	Not used	Not used
	11	Input Cover V3S	Not used	XAK3533	Not used	Not used	XAK3533
	11	Input Cover 81K	Not used	Not used	Not used	AAK8355	Not used
	13	Panel 1016KHY Assy	AXG7325	Not used	Not used	Not used	Not used
	13	Panel 1016SHY Assy	Not used	AXG7310	Not used	Not used	Not used
	13	Panel 1016KKU Assy	Not used	Not used	AXG7313	Not used	Not used
	13	Panel 80KKU Assy	Not used	Not used	Not used	AXG7311	Not used
	13	Panel 80SKU Assy	Not used	Not used	Not used	Not used	AXG7312
	14	P Base 1016KPW	AMB7926	Not used	Not used	Not used	Not used
	14	P Base 2016SHY	Not used	AMB7920	Not used	Not used	Not used
	14	P Base 9110KKU	Not used	Not used	AMB7921	Not used	Not used
	14	P Base 81KKU	Not used	Not used	Not used	AMB7919	Not used
	14	P Base 81SKU	Not used	Not used	Not used	Not used	AMB7925
	15	Side Button K	AAD7761	Not used	AAD7761	AAD7761	Not used
	15	Side Button S	Not used	AAD7760	Not used	Not used	AAD7760
NSP	16	Func BTN K Assy	AAD7758	Not used	AAD7758	AAD7758	Not used
NSP	16	Func BTN S Assy	Not used	AAD7757	Not used	Not used	AAD7757
	17	STDBY BTN 915K Assy	XAD3216	Not used	XAD3216	XAD3216	Not used
	17	STDBY BTN 915P Assy	Not used	XAD3217	Not used	Not used	XAD3217
	18	4P Shield Cable (J61)	XDX3028	XDX3028	Not used	Not used	Not used

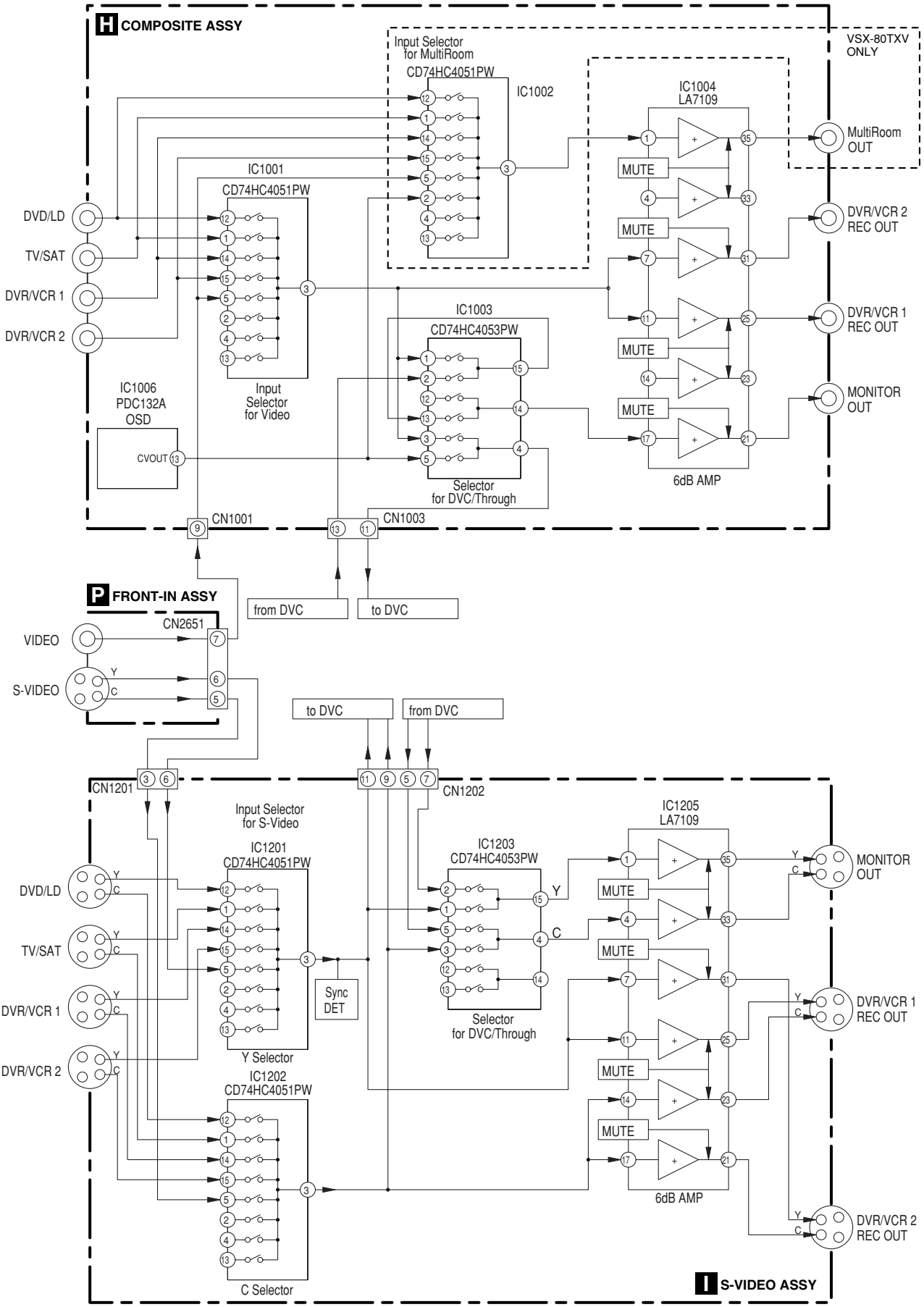
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

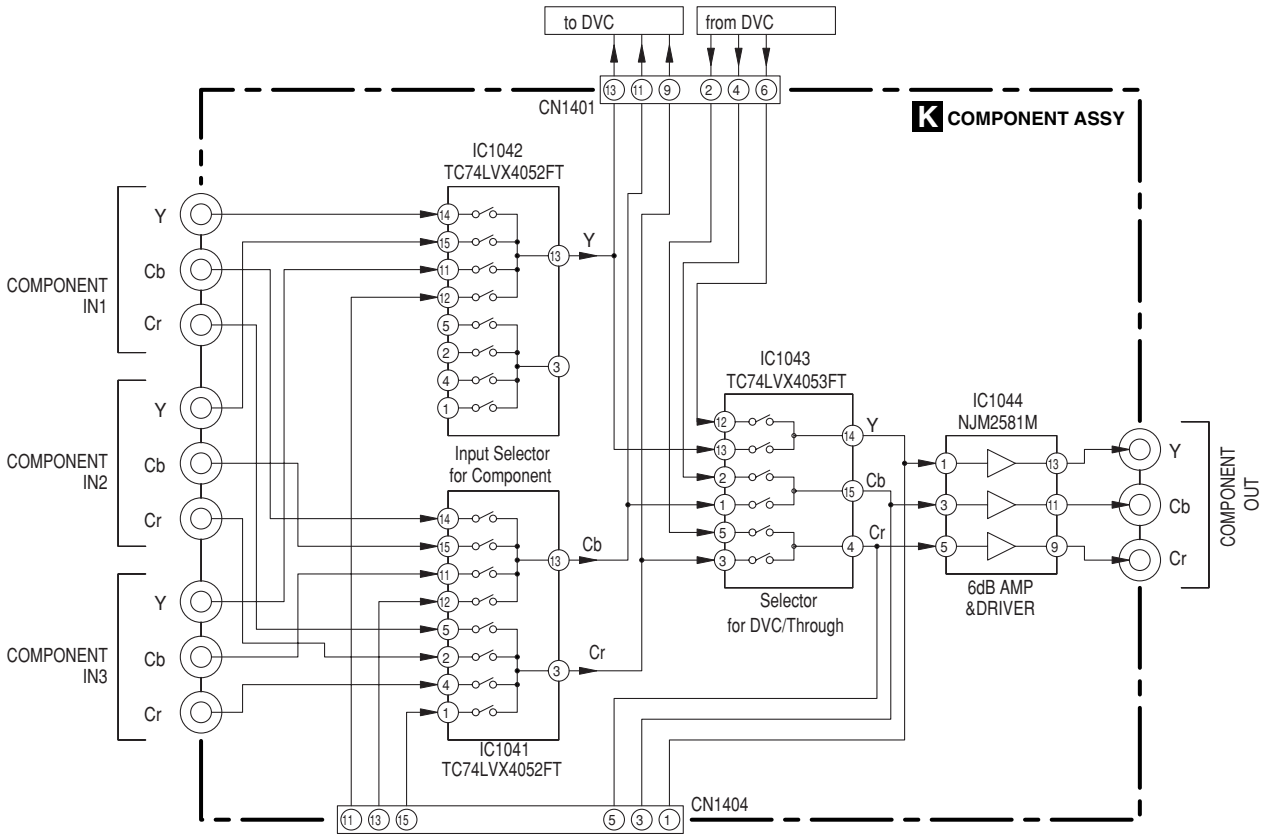
3.1 BLOCK DIAGRAM for AUDIO BLOCK



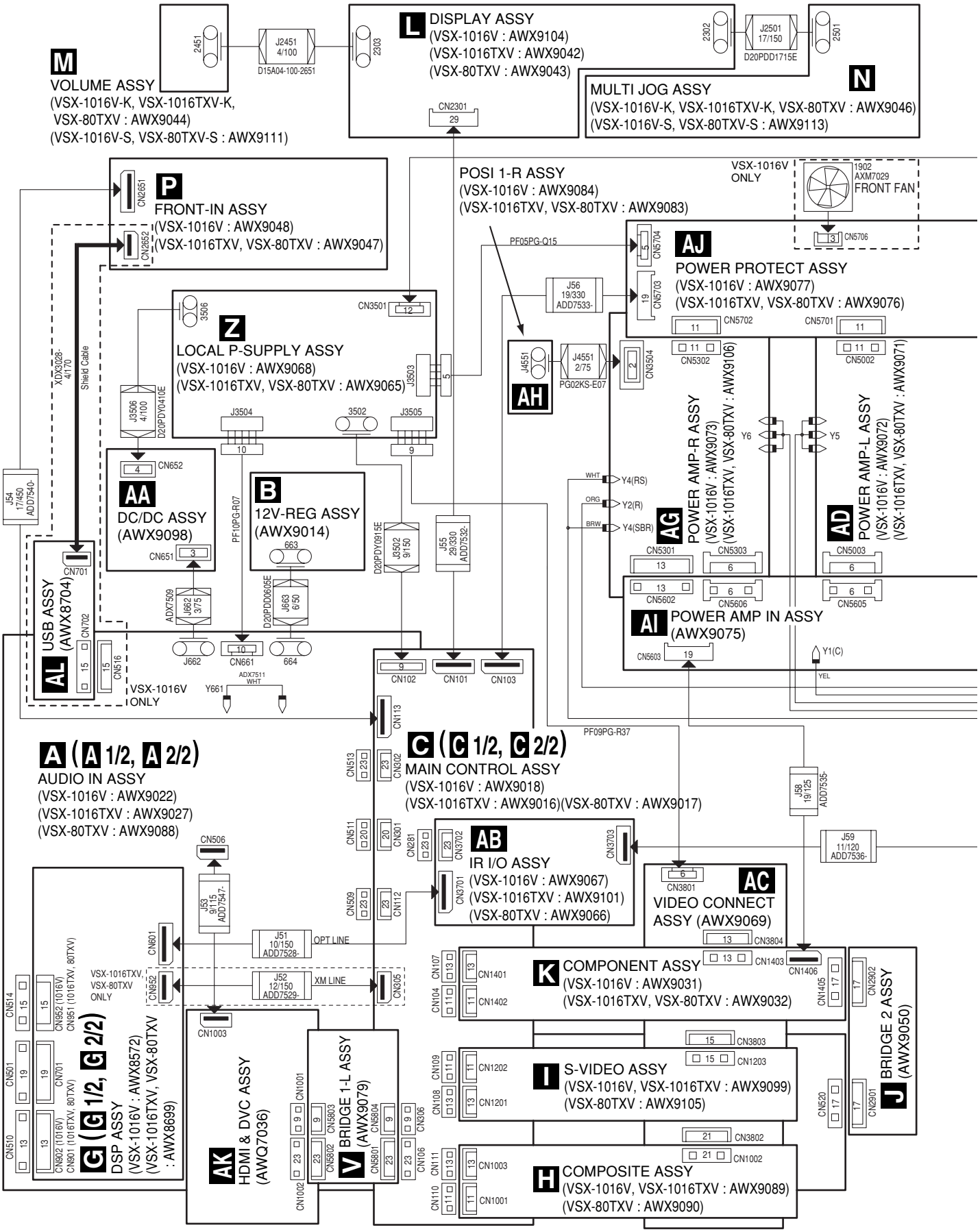

Y TRANS SIDE ASSY
O HEADPHONE ASSY
J3201
HPL
CN2851
JA2851
PHONES
CN3203
HPL
J3009
W PS/SP ASSY
RY3001
RY3002
RY3003
RY3004
RY3005
CN3001
CN3002
CN3003
CN3005
L
R
C
SL
SR
SBL
SBR
SPEAKERS
FDTO
SDTO
CDTO
BDTO
IC701
AK4628AVQ
8ch
CODEC
SBLO
CO
SWO
SLO
FLO
LIN
CN701
CN501
AOUTL
FL
SL
SW
C
SBL
AD POWER AMP-L ASSY
Q5004,Q5005
2SA1145,2SC2705
IC5001,IC5002
SAP17N,SAP17P
Voltage Amp
Current Amp
Y1(1/2)
Q5104,Q5105
2SA1145,2SC2705
IC5101,IC5102
SAP17N,SAP17P
Y3(1/2)
Q5204,Q2005
2SA1145,2SC2705
IC5201,IC5202
SAP17N,SAP17P
Y3(2/2)
CN5601
CN5001
CN5603
CN5605
CN5003
CG1
Q5604,Q5605
2SA1145,2SC2705
IC5601
SAP17N
AG POWER AMP-R ASSY
IC5602
SAP17P
CN5606
CN5303
AI POWER AMP IN ASSY
CN1406
CN2901
CN2902
CN1405
LOUT
SLOUT
SWOUT
COUT
SBLOUT
CN1501(1/2)
L
CN1502(1/2)
SL
CN1501(2/2)
SW
C
CN1502(2/2)
SBL
PRE OUT
J BRIDGE 2 ASSY
K COMPONENT ASSY

3.2 BLOCK DIAGRAM for VIDEO BLOCK

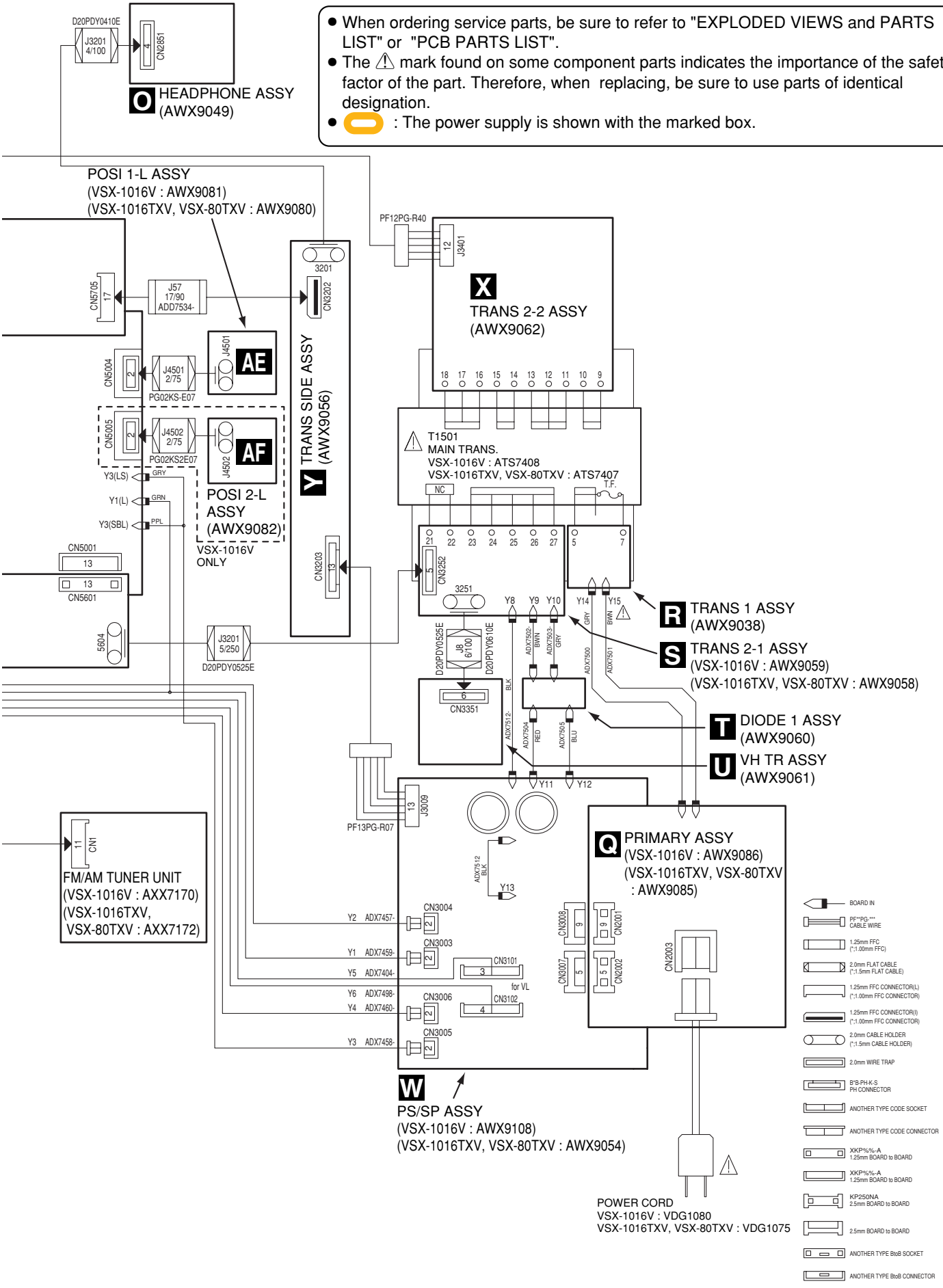



to DVC
from DVC
CN1401
K COMPONENT ASSY
IC1042
TC74LVX4052FT
COMPONENT IN1
COMPONENT IN2
COMPONENT IN3
Y
Cb
Cr
Input Selector for Component
IC1041
TC74LVX4052FT
IC1043
TC74LVX4053FT
Selector for DVC/Through
IC1044
NJM2581M
6dB AMP &DRIVER
COMPONENT OUT
CN1404

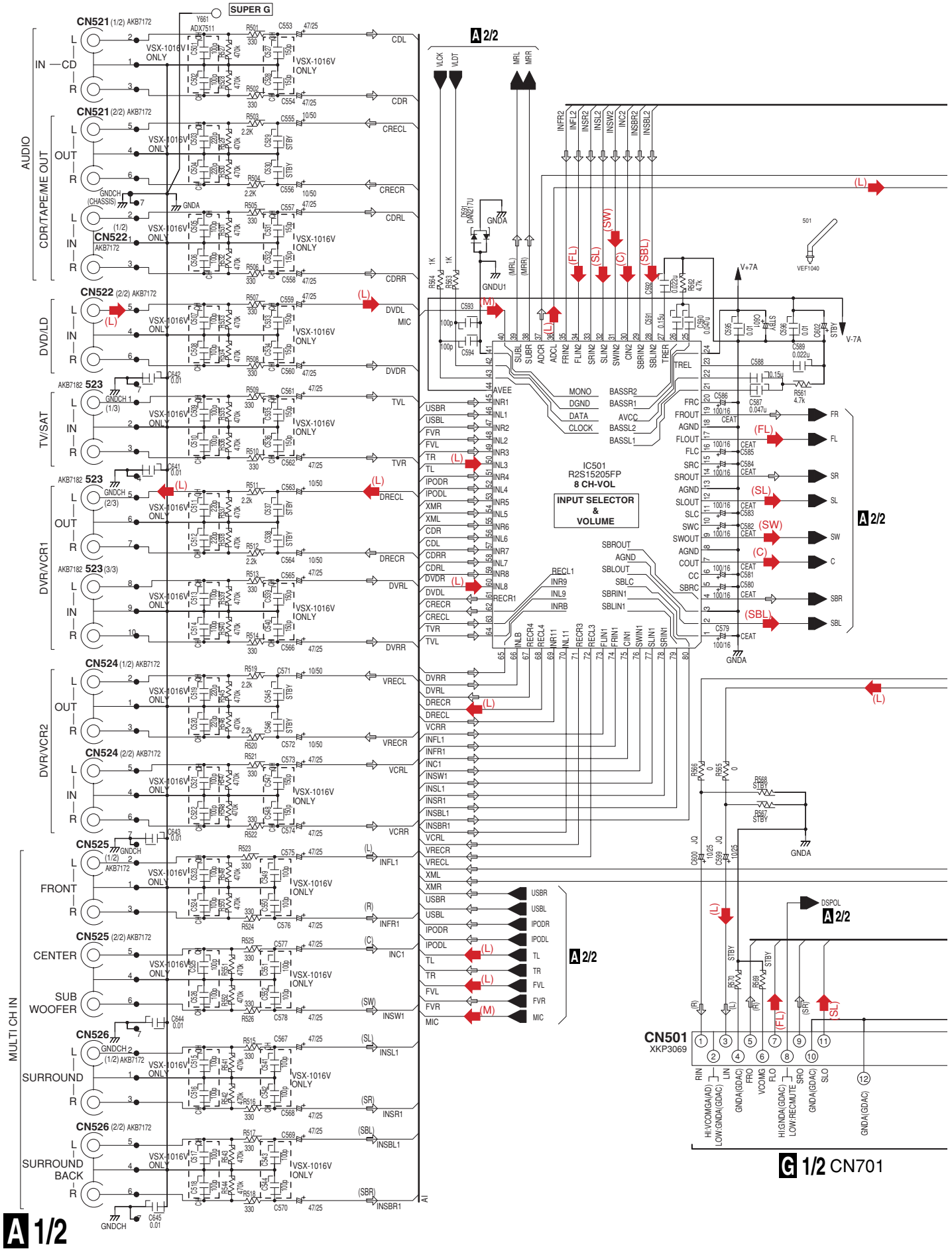
3.3 OVERALL WIRING DIAGRAM



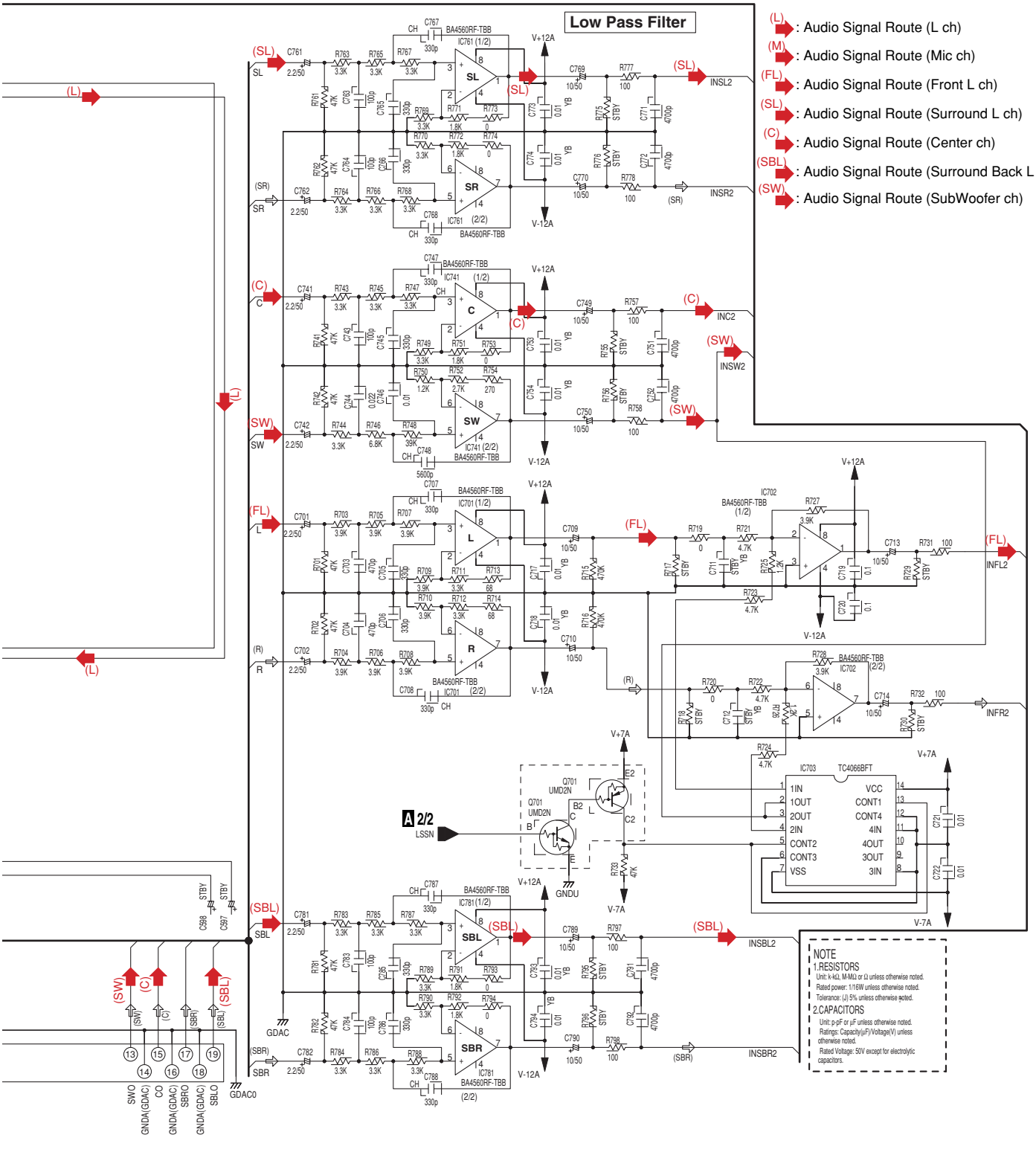
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply is shown with the marked box.



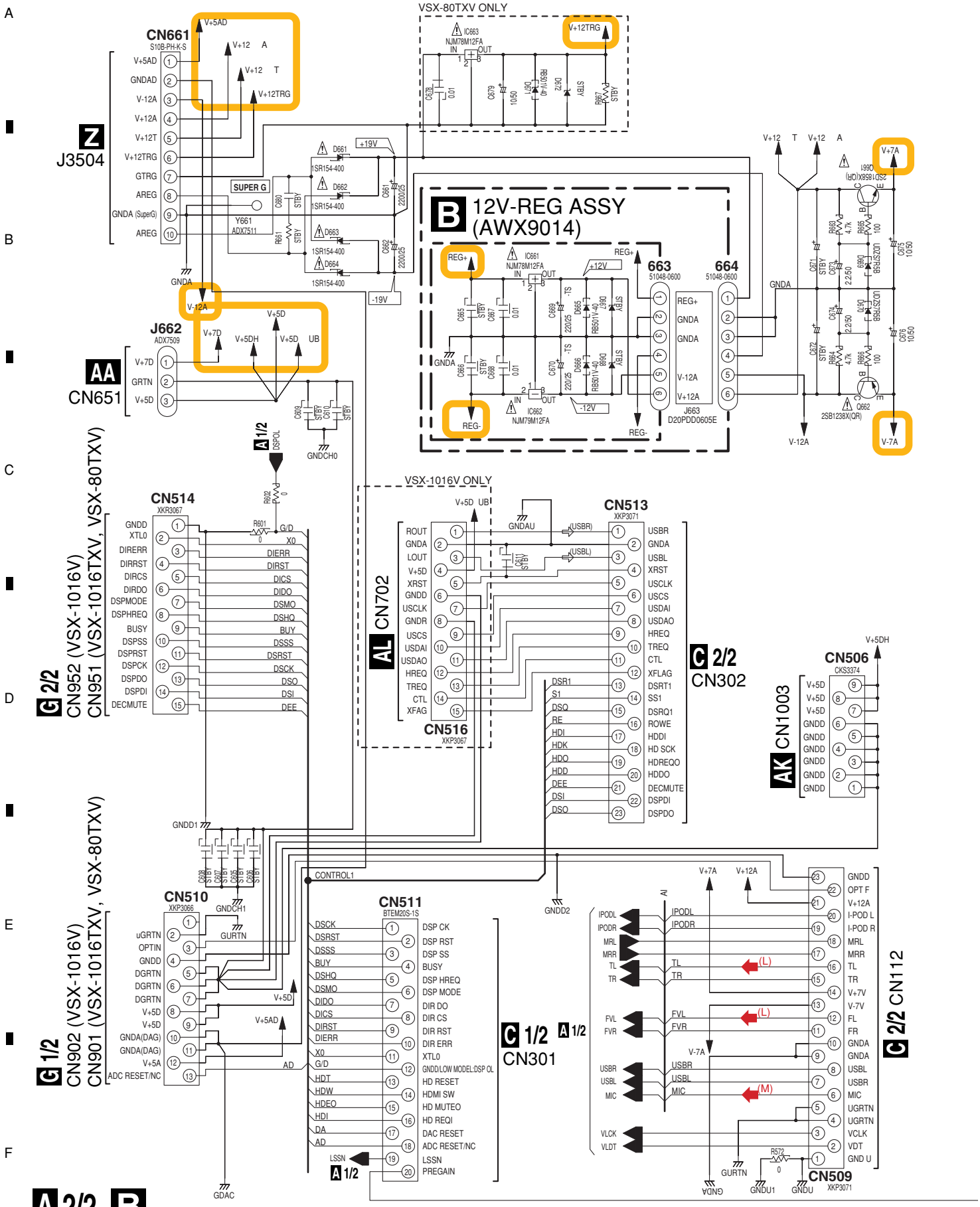
3.4 AUDIO IN ASSY (1/2)



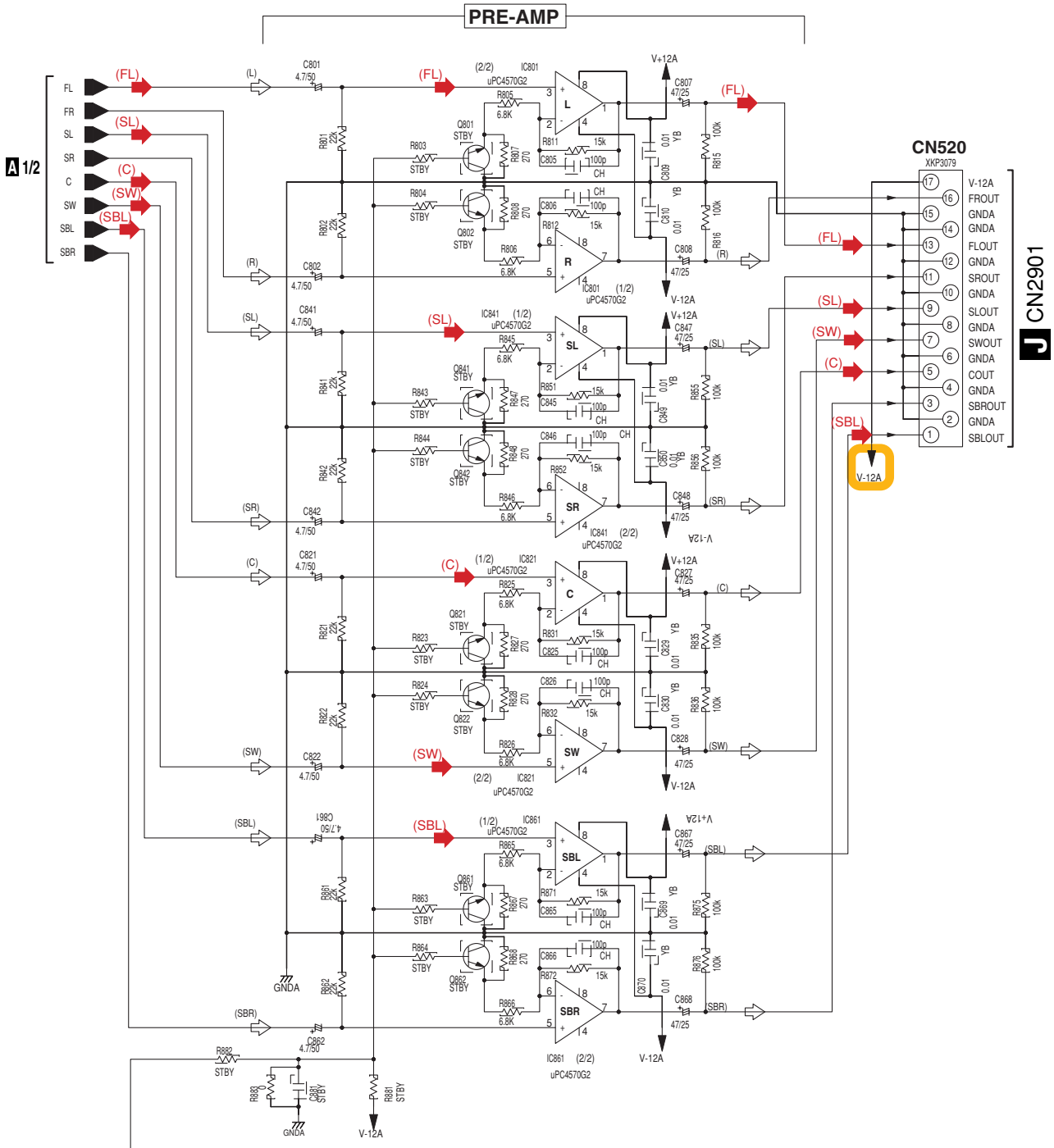
A 1/2 AUDIO IN ASSY (VSX-1016V : AWX9022)
(VSX-1016TXV : AWX9027)
(VSX-80TXV : AWX9088)



3.5 AUDIO IN (2/2) and 12V-REG ASSYS



A 2/2 AUDIO IN ASSY (VSX-1016V : AWX9022)
(VSX-1016TXV : AWX9027)
(VSX-80TXV : AWX9088)

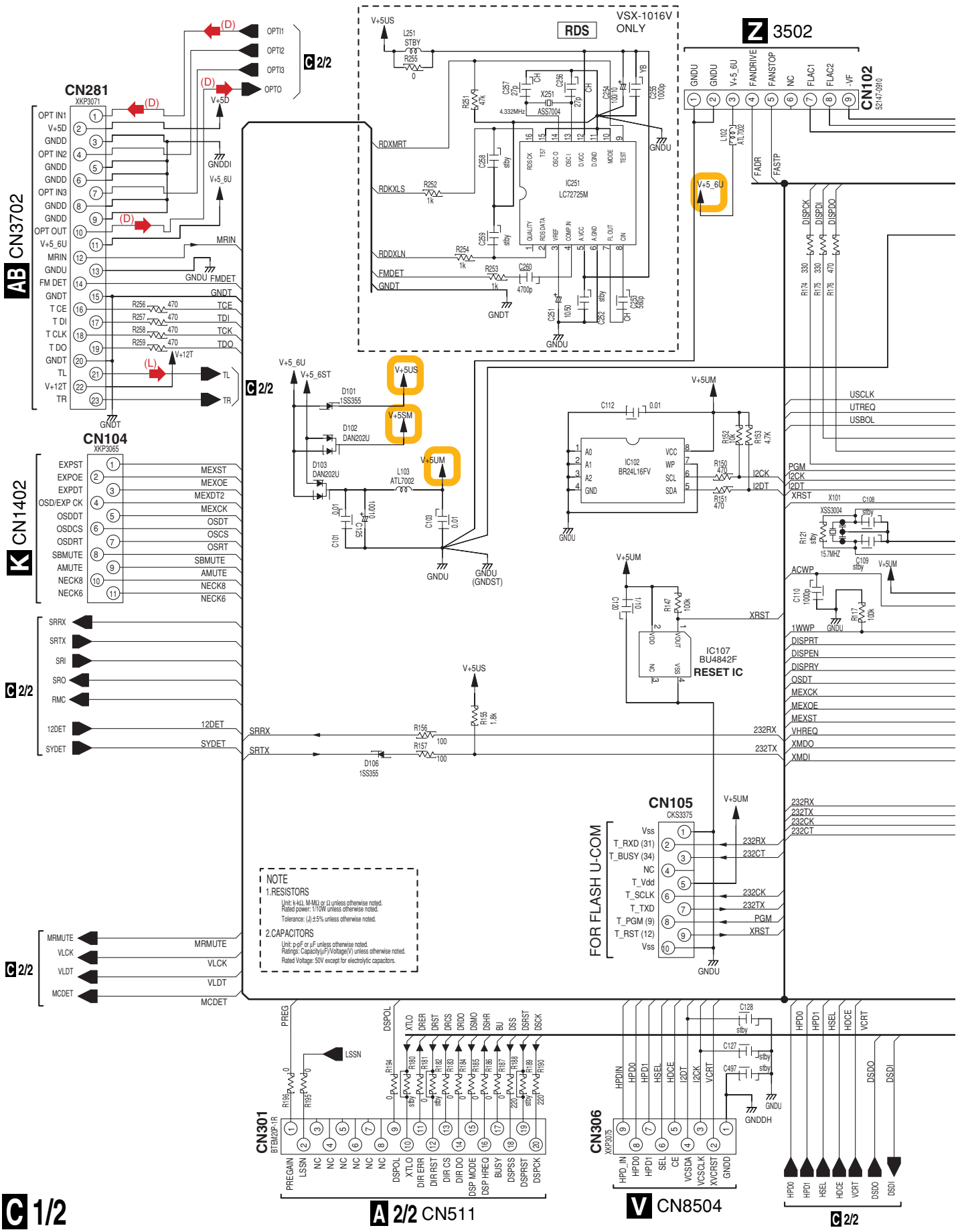


(L) : Audio Signal Route (L ch)
(M) : Audio Signal Route (Mic ch)
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)
(SW) : Audio Signal Route (SubWoofer ch)

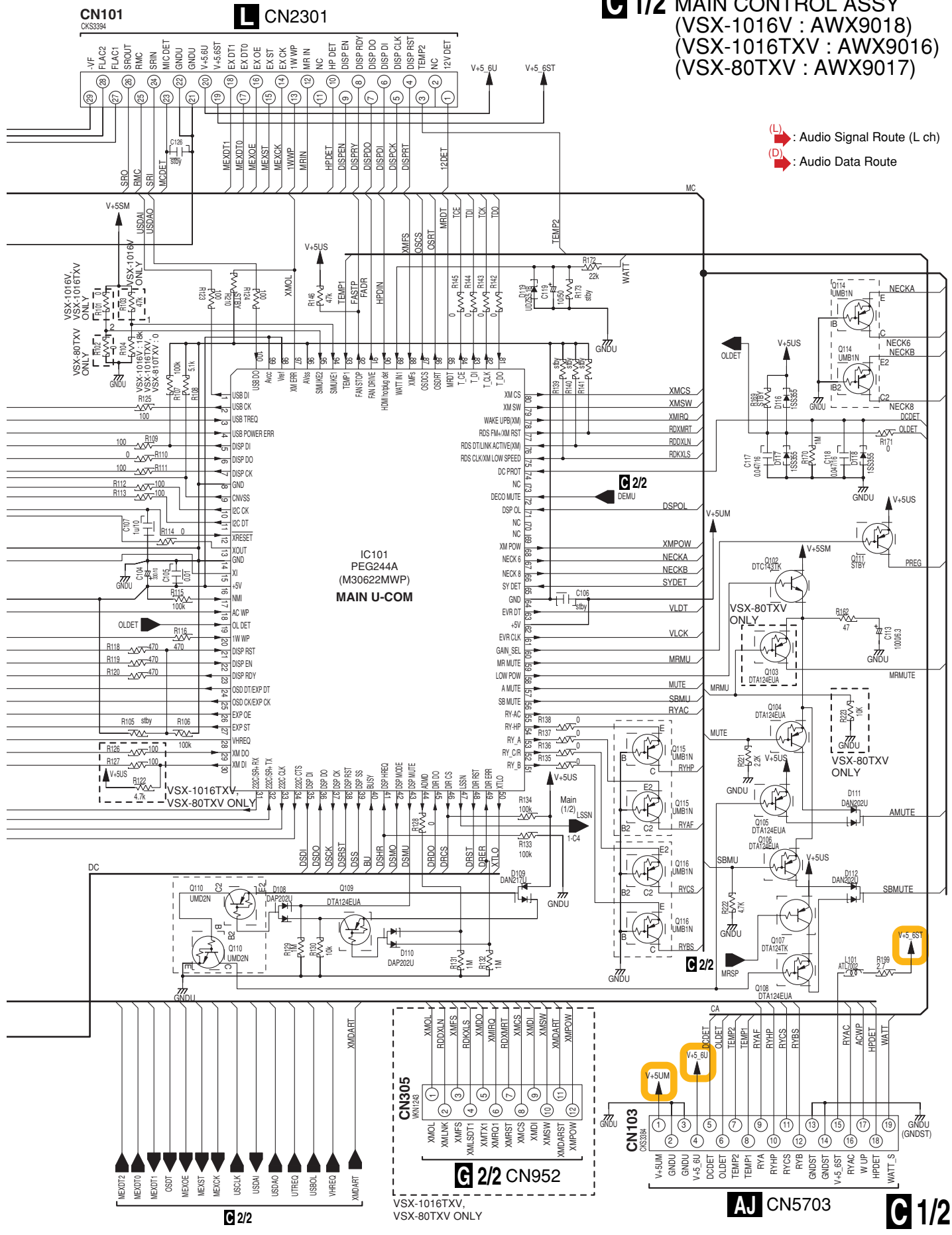
NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) 5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.

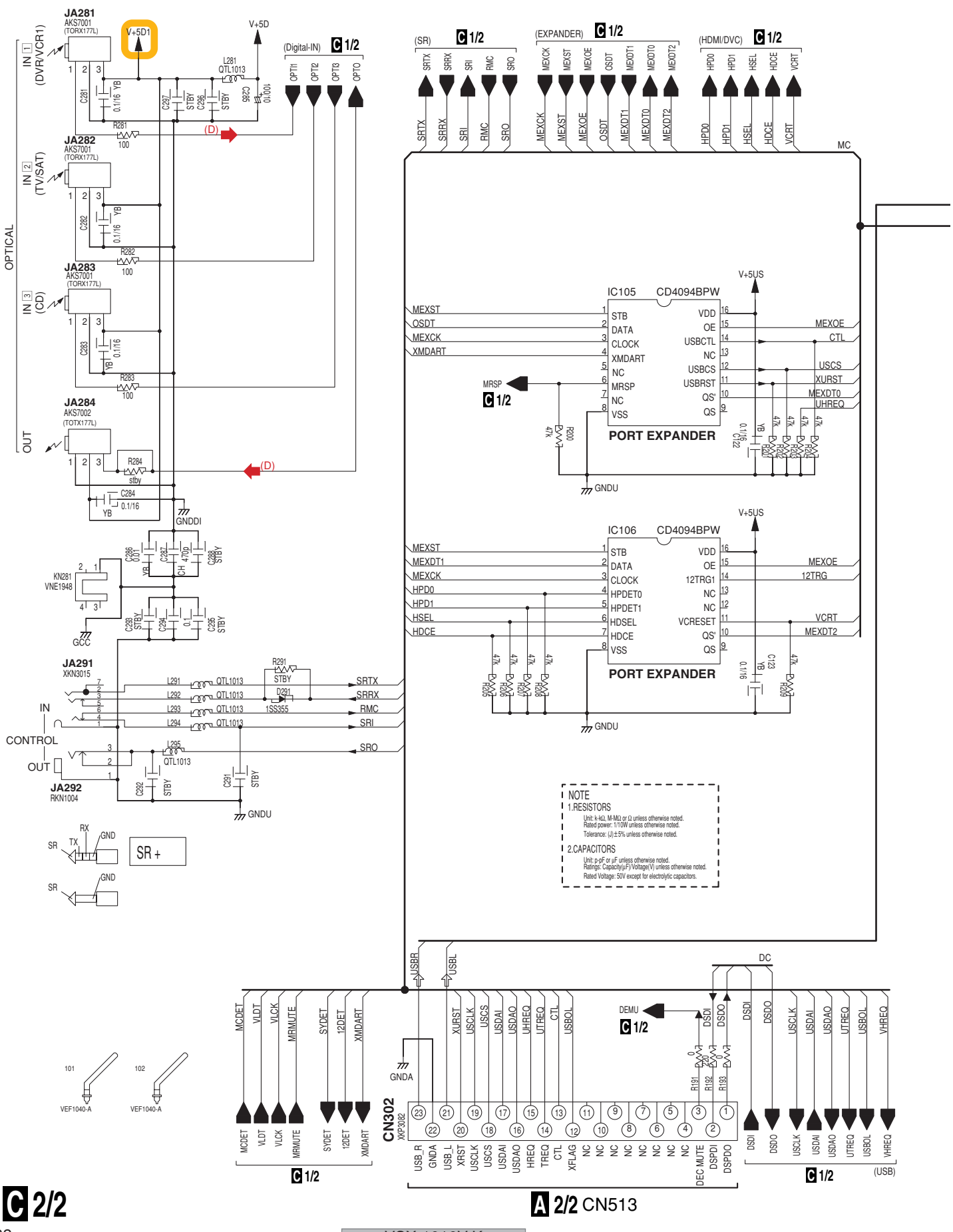
A 2/2

3.6 MAIN CONTROL ASSY (1/2)



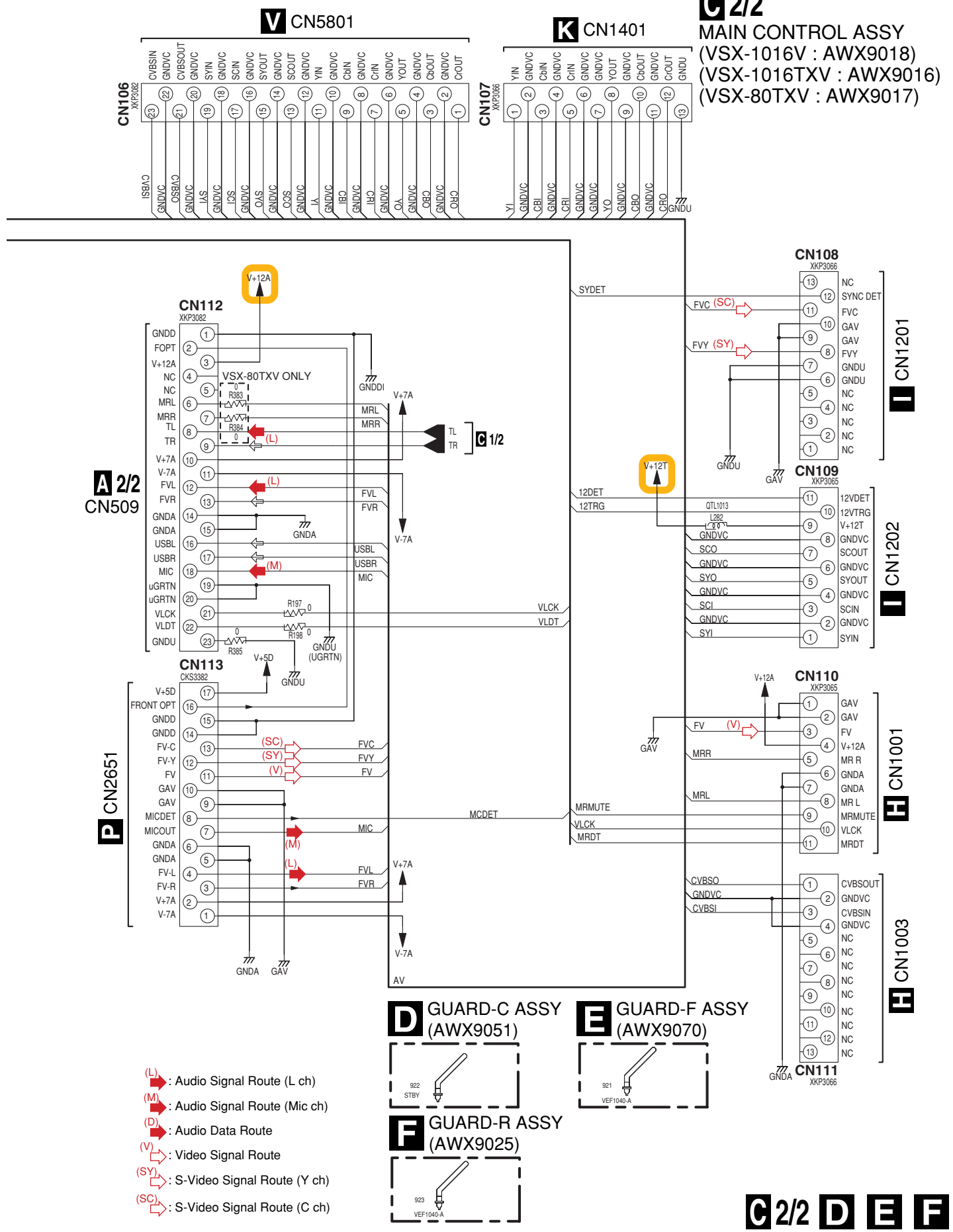
C 1/2 MAIN CONTROL ASSY
(VSX-1016V : AWX9018)
(VSX-1016TXV : AWX9016)
(VSX-80TXV : AWX9017)




JA281
AKS7001
(TORX177L)
IN 1
(DVR/VCR1)
V+5D1
V+5D
L281
QTL1013
(Digital-IN)
C 1/2
OPTI1
OPTI2
OPTI3
OPTO
R281
100
(D)
JA282
AKS7001
(TORX177L)
IN 2
(TV/SAT)
R282
100
JA283
AKS7001
(TORX177L)
IN 3
(CD)
R283
100
OPTICAL
JA284
AKS7002
(TOTX177L)
OUT
R284
stby
C284
0.1/16
YB
(D)
GNDDI
KN281
VNE1948
GCC
JA291
XKN3015
IN
CONTROL
OUT
JA292
RKN1004
L291
L292
L293
L294
L295
QTL1013
R291
STBY
D291
1SS355
SRTX
SRRX
RMC
SRI
SRO
GNDU
SR
RX
TX
GND
SR +
(SR)
C 1/2
(EXPANDER)
C 1/2
(HDMI/DVC)
C 1/2
MC
IC105
CD4094BPW
PORT EXPANDER
MEXST
OSDT
MEXCK
XMDART
MRSP
C 1/2
STB
DATA
CLOCK
XMDART
NC
MRSP
NC
VSS
VDD
OE
USBCTL
NC
USBCS
USBRST
QS'
QS
MEXOE
CTL
USCS
XURST
MEXDT0
UHREQ
V+5US
IC106
CD4094BPW
PORT EXPANDER
MEXST
MEXDT1
MEXCK
HPD0
HPD1
HSEL
HDCE
STB
DATA
CLOCK
HPDET0
HPDET1
HDSEL
HDCE
VSS
VDD
OE
12TRG1
NC
NC
VCRESET
QS'
QS
MEXOE
12TRG
VCRT
MEXDT2
NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J)±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
USBR
USBL
DC
DEMU
C 1/2
DSDI
DSDO
R191
R192
R193
GNDA
CN302
XKP3082
MCDET
VLDT
VLCK
MRMUTE
SYDET
12DET
XMDART
XURST
USCLK
USCS
USDAI
USDAO
UHREQ
UTREQ
CTL
USBOL
VHREQ
USB_R
GNDA
USB_L
XFLAG
TREQ
DEC MUTE
DSPDI
DSPDO
(USB)
C 1/2
A 2/2 CN513
101
102
VEF1040-A
VEF1040-A

C 2/2

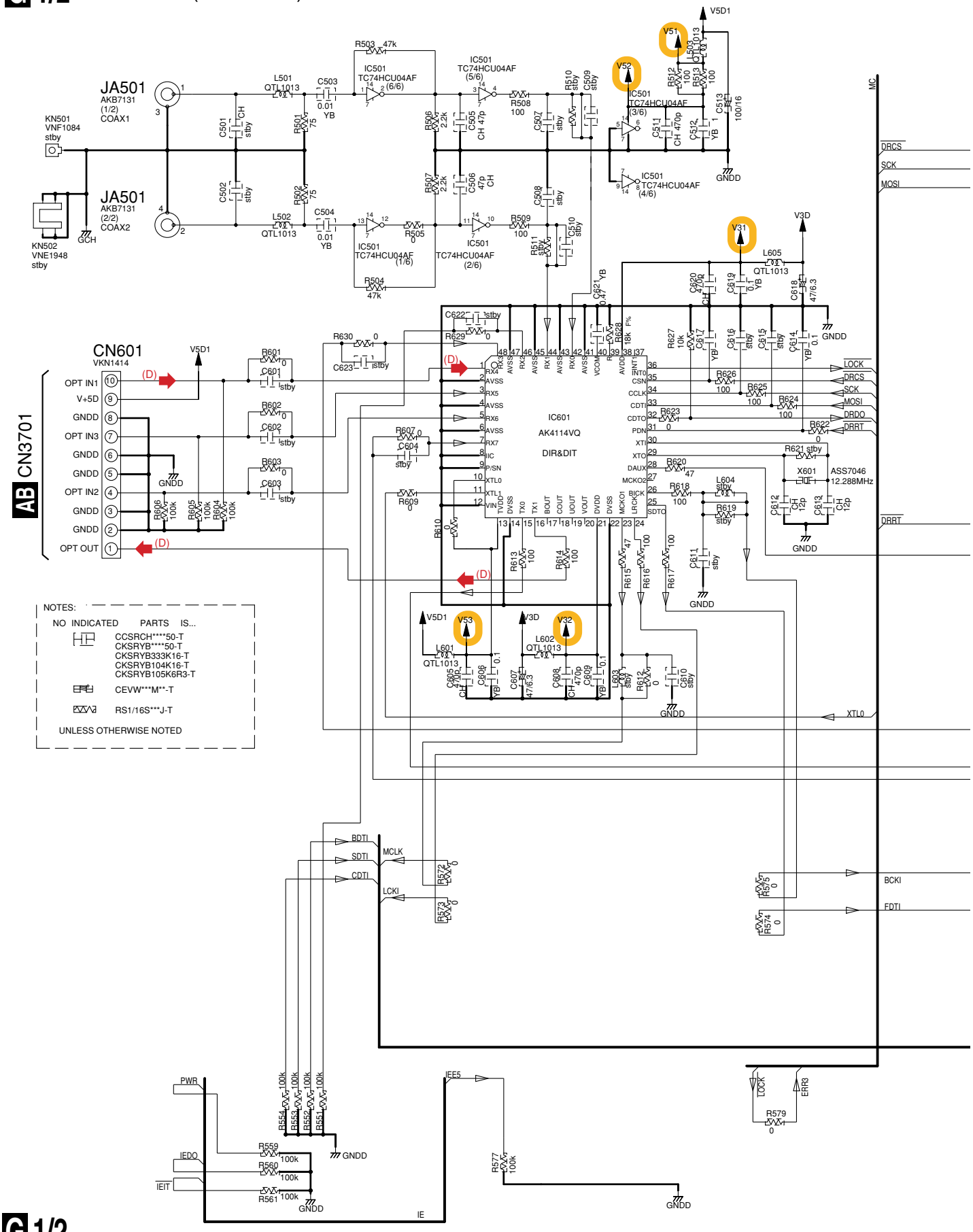
C 2/2
MAIN CONTROL ASSY
(VSX-1016V : AWX9018)
(VSX-1016TXV : AWX9016)
(VSX-80TXV : AWX9017)


V CN5801
K CN1401
CN106 XKP3082
CN107 XKP3066
CVBSIN GNDVC CVBSOUT GNDVC SYIN GNDVC SCIN GNDVC SYOUT GNDVC SCOUT GNDVC YIN GNDVC CbIN GNDVC CrIN GNDVC YOUT GNDVC CbOUT GNDVC CrOUT GNDVC
YIN GNDVC CbIN GNDVC CrIN GNDVC YOUT GNDVC CbOUT GNDVC CrOUT GNDU
ISBJ GNDVC OSBJ GNDVC IJS GNDVC IOS GNDVC OJS GNDVC OOS GNDVC IJ GNDVC IBJ GNDVC IRJ GNDVC OJ GNDVC OBJ GNDVC ORJ GNDVC
YI GNDVC CBI GNDVC CRI GNDVC GNDVC YO GNDVC CBO GNDVC CRO GNDU
A 2/2
CN509
CN112 XKP3082
GNDD FOPT V+12A NC NC MRL MRR TL TR V+7A V-7A FVL FVR GNDA GNDA USBL USBR MIC uGRTN uGRTN VLCK VLDT GNDU
VSX-80TXV ONLY
R393 R384 R385 R197 R198
GNDDI GNDA GNDU (UGRTN)
V+12A V+5D V+7A V-7A
MRL MRR FVL FVR USBL USBR MIC VLCK VLDT
(L) (M)
TL TR
C 1/2
P CN2651
CN113 CKS3382
V+5D FRONT OPT GNDD GNDD FV-C FV-Y FV GAV GAV MICDET MICOUT GNDA GNDA FV-L FV-R V+7A V-7A
(SC) (SY) (V)
FVC FVY FV
MIC
(M)
(L)
FVL FVR
GNDA GAV
AV
SYDET
12DET 12TRG
VLCK VLDT
MCDET
MRMUTE VLCK MRDT
V+12T
CN108 XKP3066
NC SYNC DET FVC GAV GAV FVY GNDU GNDU NC NC NC NC NC
FVC (SC)
FVY (SY)
GNDU GAV
I CN1201
CN109 XKP3065
12VDET 12VTRG V+12T GNDVC SCOUT GNDVC SYOUT GNDVC SCIN GNDVC SYIN
QTL1013 L282
GNDVC SCO GNDVC SYO GNDVC SCI GNDVC SYI
I CN1202
CN110 XKP3065
GAV GAV FV V+12A MR R GNDA GNDA MR L MRMUTE VLCK MRDT
FV (V)
MRR
MRL
GAV
H CN1001
CN111 XKP3066
CVBSOUT GNDVC CVBSIN GNDVC NC NC NC NC NC NC NC NC NC
CVBSO GNDVC CVBSI
GNDA
H CN1003
D GUARD-C ASSY
(AWX9051)
922 STBY
E GUARD-F ASSY
(AWX9070)
921 VEF1040-A
F GUARD-R ASSY
(AWX9025)
923 VEF1040-A
(L) : Audio Signal Route (L ch)
(M) : Audio Signal Route (Mic ch)
(D) : Audio Data Route
(V) : Video Signal Route
(SY) : S-Video Signal Route (Y ch)
(SC) : S-Video Signal Route (C ch)

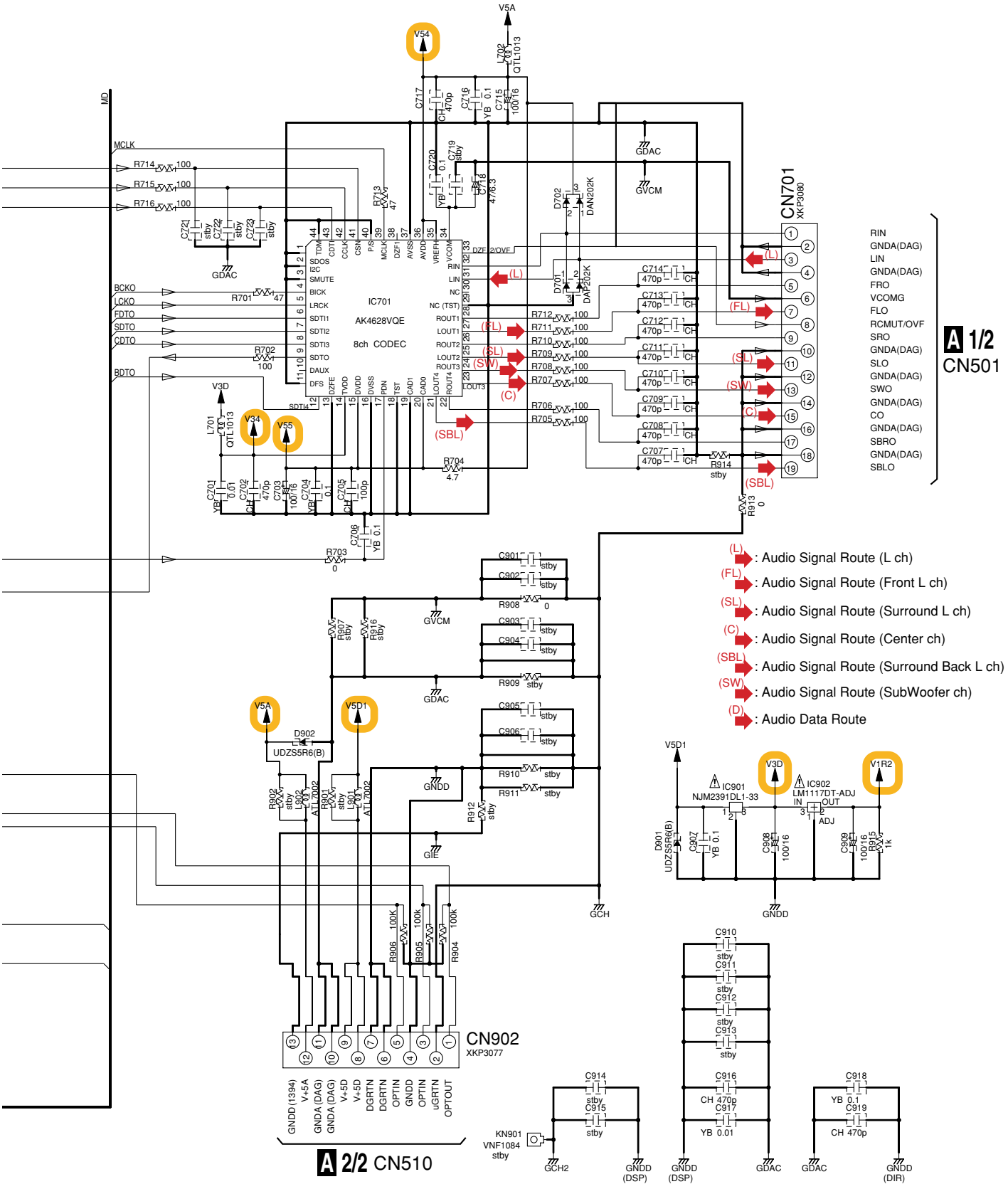
C 2/2 D E F

3.8 DSP ASSY (1/2)(for VSX-1016V)

G 1/2 DSP ASSY (AWX8572)

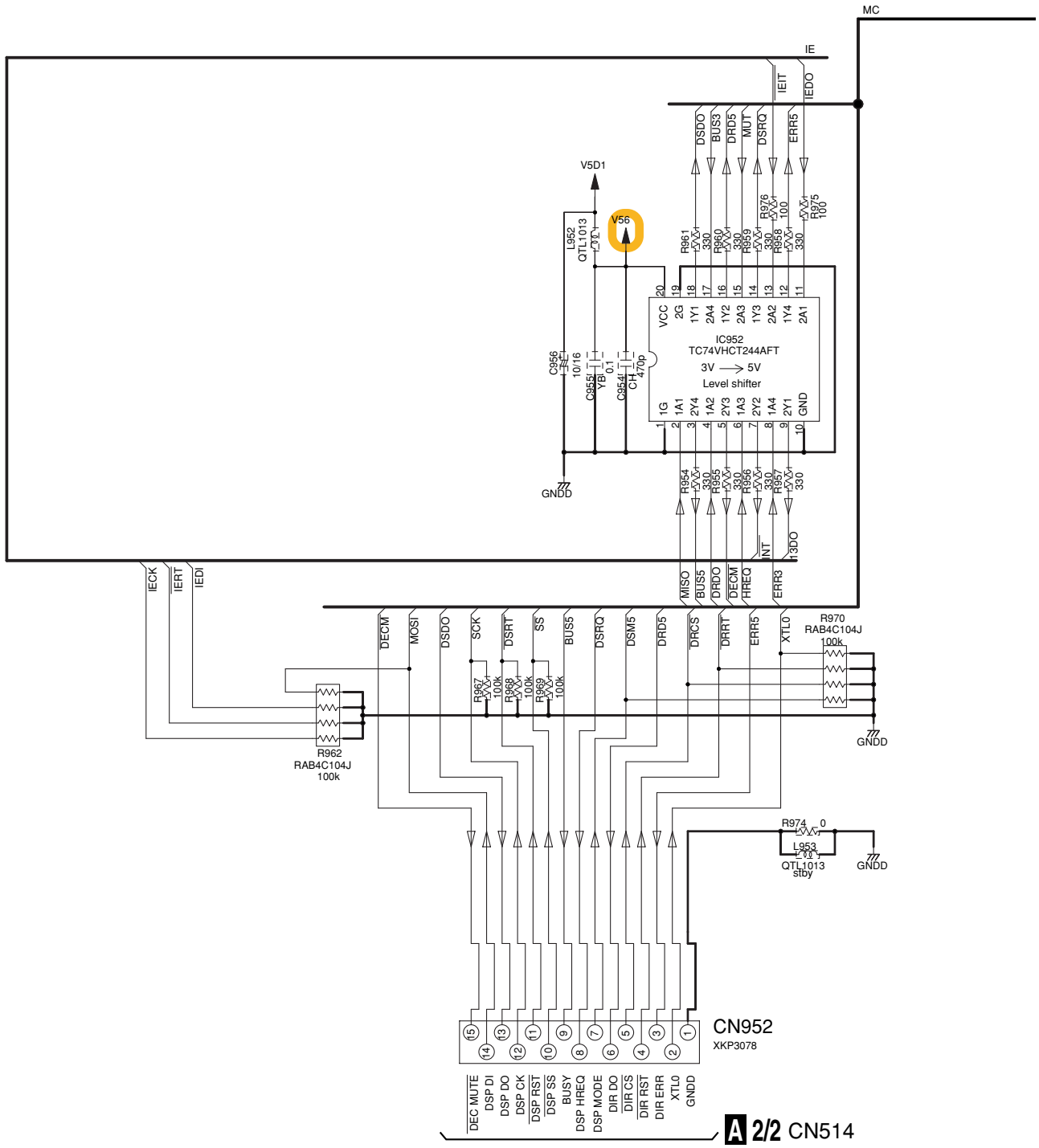


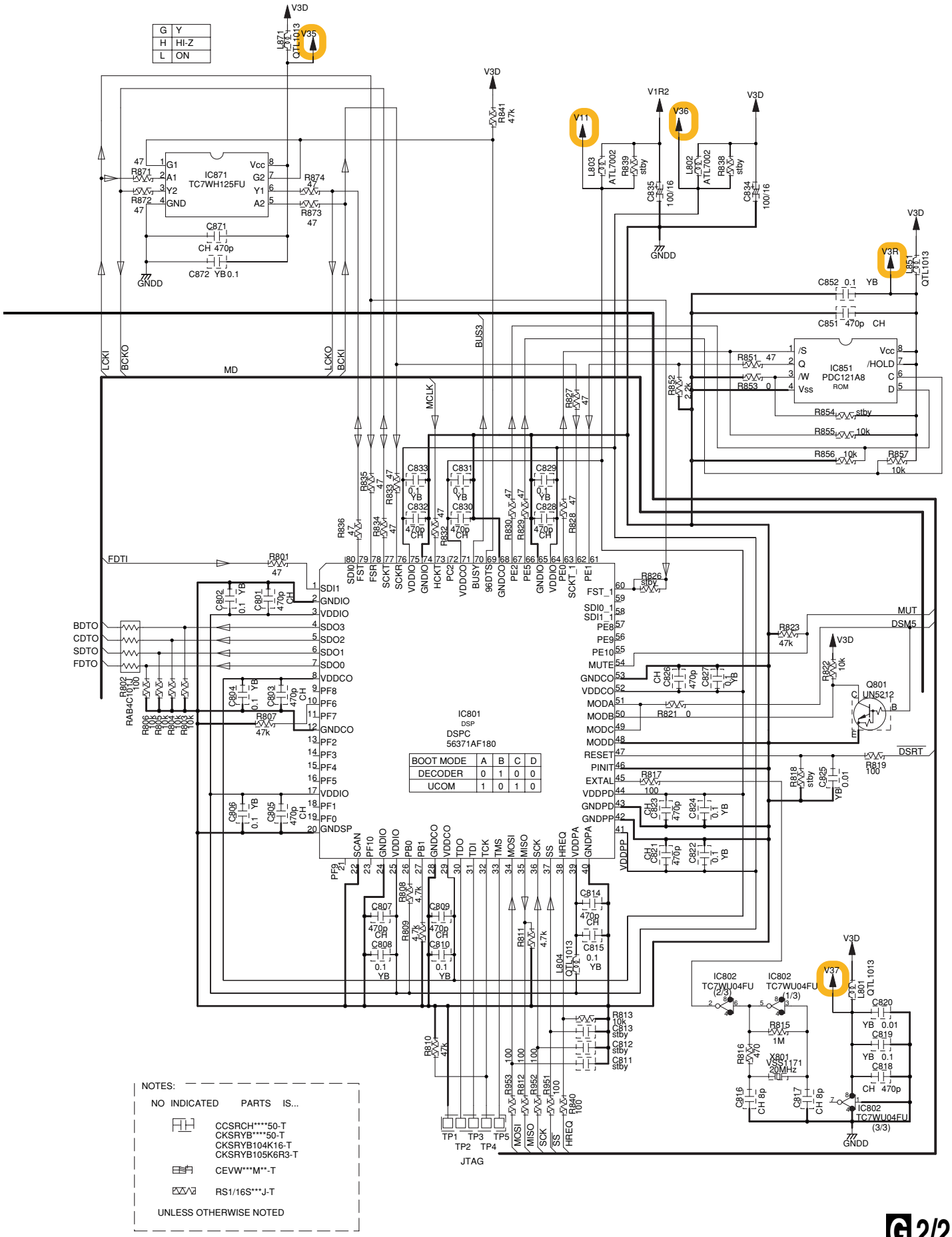
G 1/2


IC701
AK4628VQE
8ch CODEC
CN701
XKP3080
CN501
A 1/2
CN902
XKP3077
A 2/2 CN510
IC901
NJM2391DL1-33
IC902
LM1117DT-ADJ
KN901
VNF1084
(L): Audio Signal Route (L ch)
(FL): Audio Signal Route (Front L ch)
(SL): Audio Signal Route (Surround L ch)
(C): Audio Signal Route (Center ch)
(SBL): Audio Signal Route (Surround Back L ch)
(SW): Audio Signal Route (SubWoofer ch)
(D): Audio Data Route

3.9 DSP ASSY (2/2)(for VSX-1016V)

G 2/2 DSP ASSY (AWX8572)



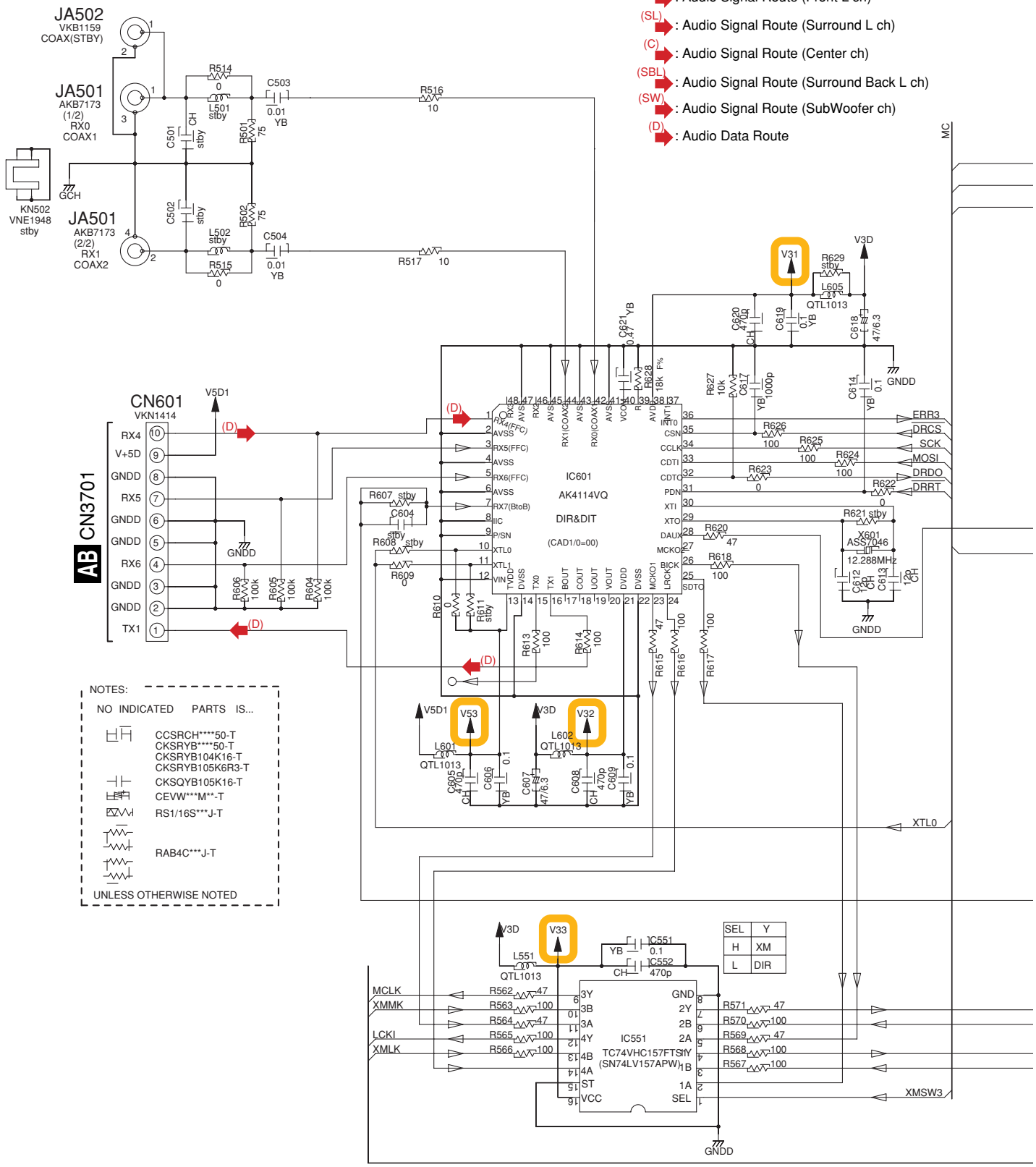

G Y
H HI-Z
L ON
IC871 TC7WH125FU
IC851 PDC121A8 ROM
IC801 DSP DSPC 56371AF180
BOOT MODE A B C D
DECODER 0 1 0 0
UCOM 1 0 1 0
IC802 TC7WU04FU (1/3)
IC802 TC7WU04FU (2/3)
IC802 TC7WU04FU (3/3)
Q801 UN5212
X801 VSS1171 20MHz
JTAG
NOTES:
NO INDICATED PARTS IS...
CCSRCH****50-T
CKSRYB****50-T
CKSRYB104K16-T
CKSRYB105K6R3-T
CEVW***M**-T
RS1/16S***J-T
UNLESS OTHERWISE NOTED

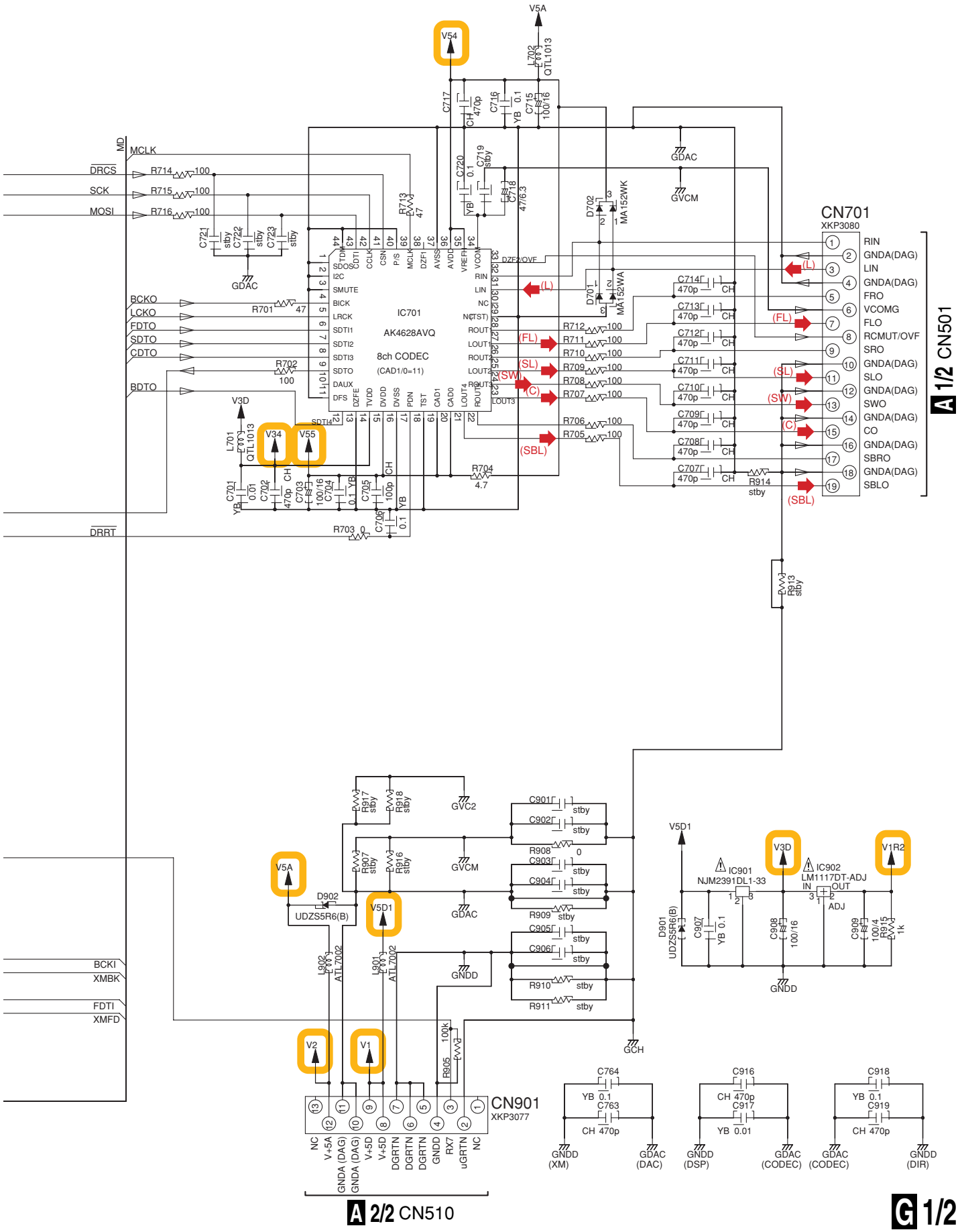
G 2/2

3.10 DSP ASSY (1/2)(for VSX-1016TXV and VSX-80TXV)

G 1/2 DSP ASSY (AWX8699)

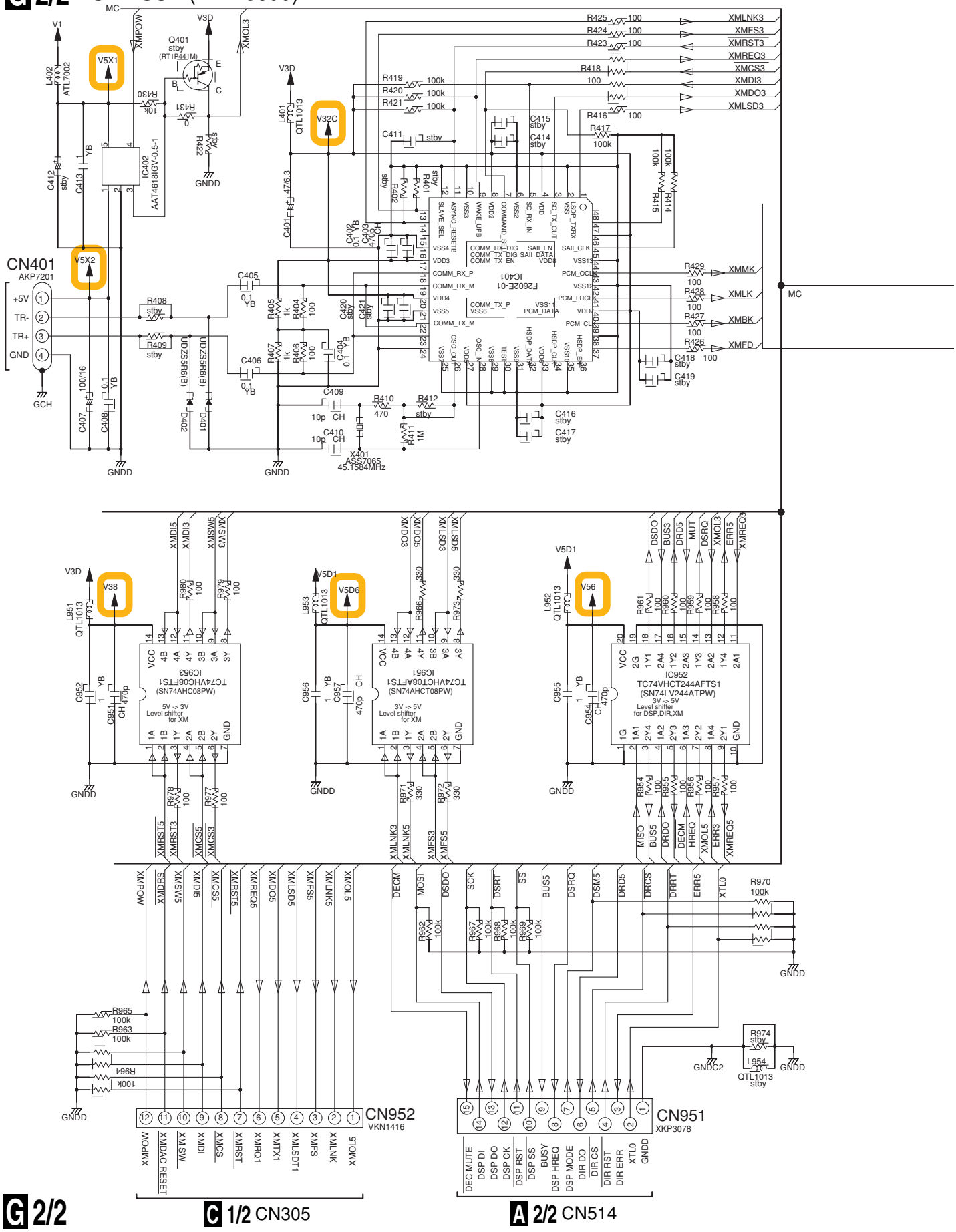
(L) : Audio Signal Route (L ch)
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)
(SW) : Audio Signal Route (SubWoofer ch)
(D) : Audio Data Route



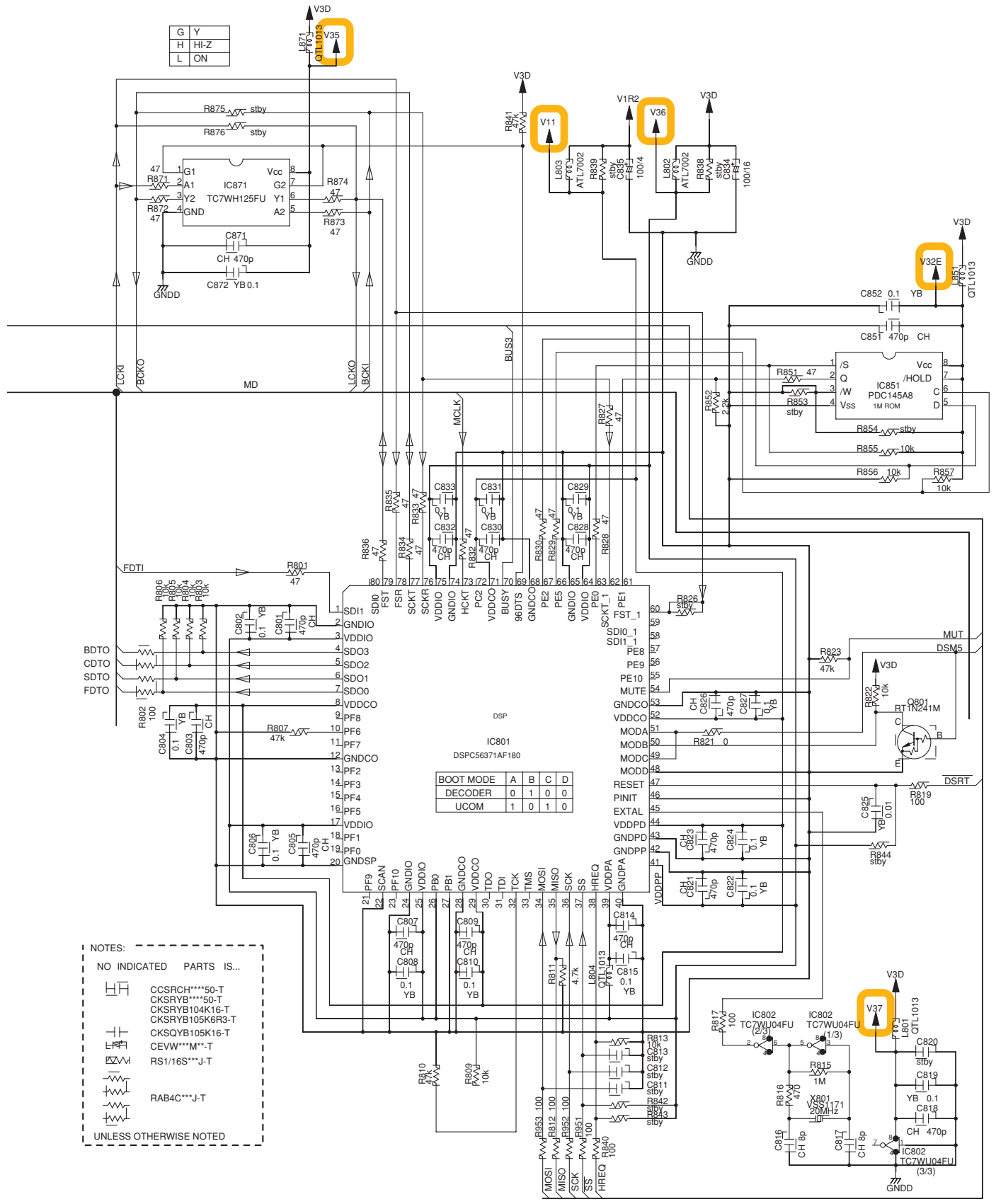

IC701
AK4628AVQ
8ch CODEC
(CAD1/0=11)
CN701
XKP3080
CN901
XKP3077
A 1/2 CN501
A 2/2 CN510
G 1/2
IC901
NJM2391DL1-33
IC902
LM1117DT-ADJ
MCLK
DRCS
SCK
MOSI
BCKO
LCKO
FDTO
SDTO
CDTO
BDTO
DRRT
BCKI
XMBK
FDTI
XMFD
V5A
V3D
V5D1
V1R2
GDAC
GVCM
GVC2
GCH
GNDD

3.11 DSP ASSY (2/2)(for VSX-1016TXV and VSX-80TXV)

G 2/2 DSP ASSY (AWX8699)

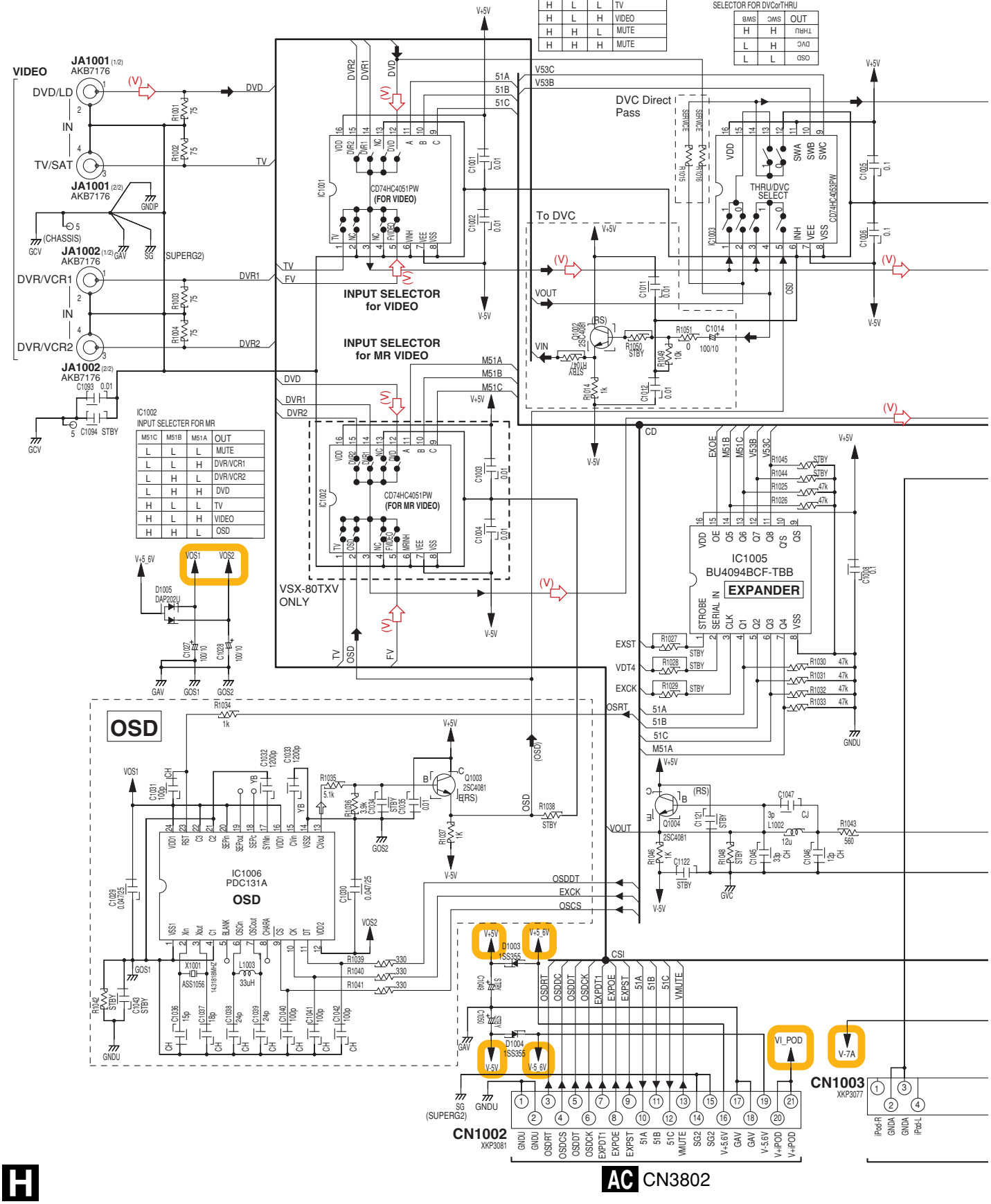


G 2/2 **C 1/2** CN305 **A 2/2** CN514

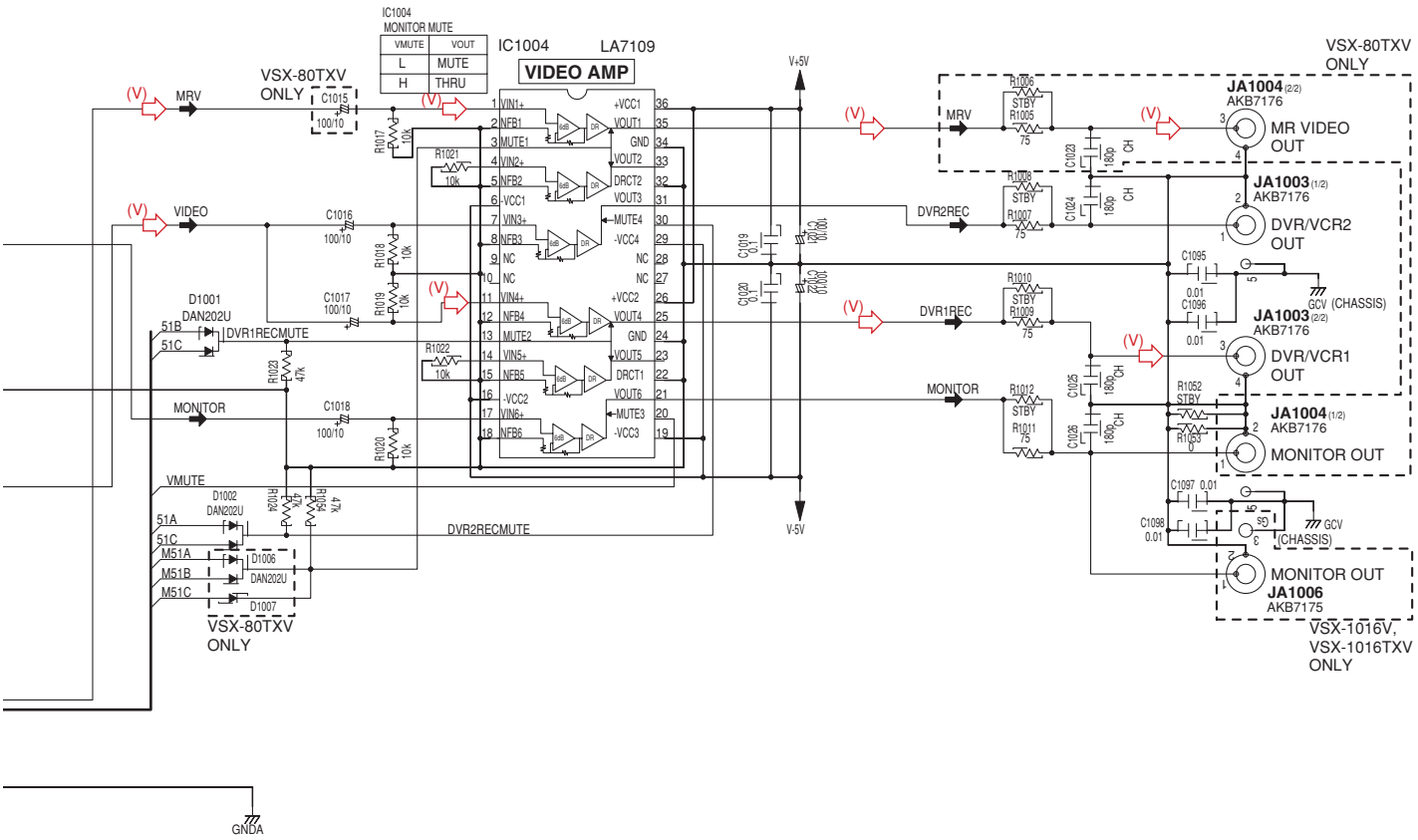

G Y
H HI-Z
L ON
V3D
V35
QTL1013
V11
V36
V32E
V37
V1R2
IC871
TC7WH125FU
IC851
PDC145A8
1M ROM
IC801
DSPC56371AF180
DSP
IC802
TC7WU04FU
(2/3)
(1/3)
(3/3)
Q801
RT1N241M
X801
VSS1171
20MHz
GNDD
MD
LCKI
BCKO
LCKO
BCKI
BUS3
MCLK
FDTI
BDTO
CDTO
SDTO
FDTO
MUT
DSM5
DSRT
BOOT MODE A B C D
DECODER 0 1 0 0
UCOM 1 0 1 0
NOTES:
NO INDICATED PARTS IS...
CCSRCH****50-T
CKSRYB****50-T
CKSRYB104K16-T
CKSRYB105K6R3-T
CKSQYB105K16-T
CEVW***M**-T
RS1/16S***J-T
RAB4C***J-T
UNLESS OTHERWISE NOTED

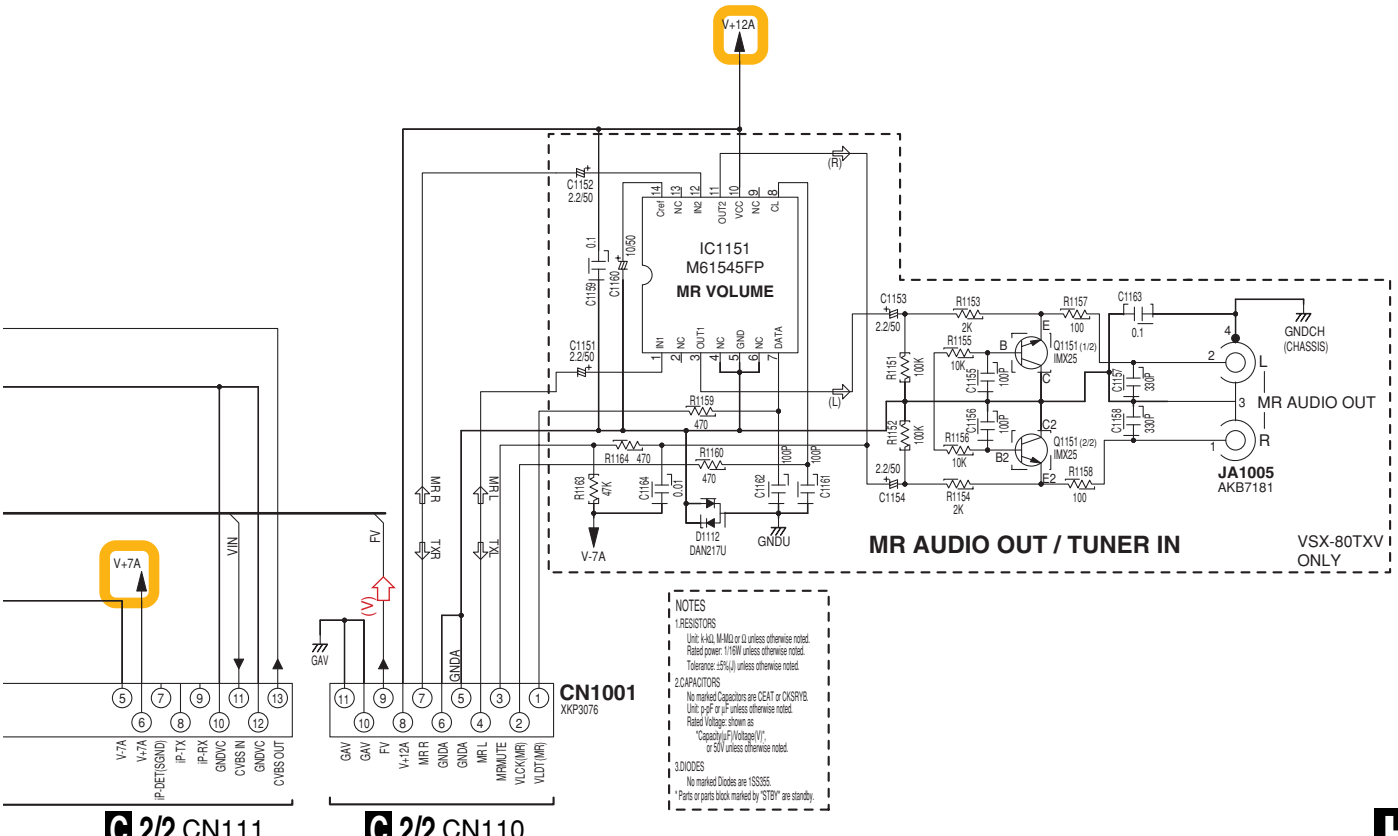
3.12 COMPOSITE ASSY

H COMPOSITE ASSY
(VSX-1016V, VSX-1016TXV : AWX9089)
(VSX-80TXV : AWX9090)



(V): Video Signal Route

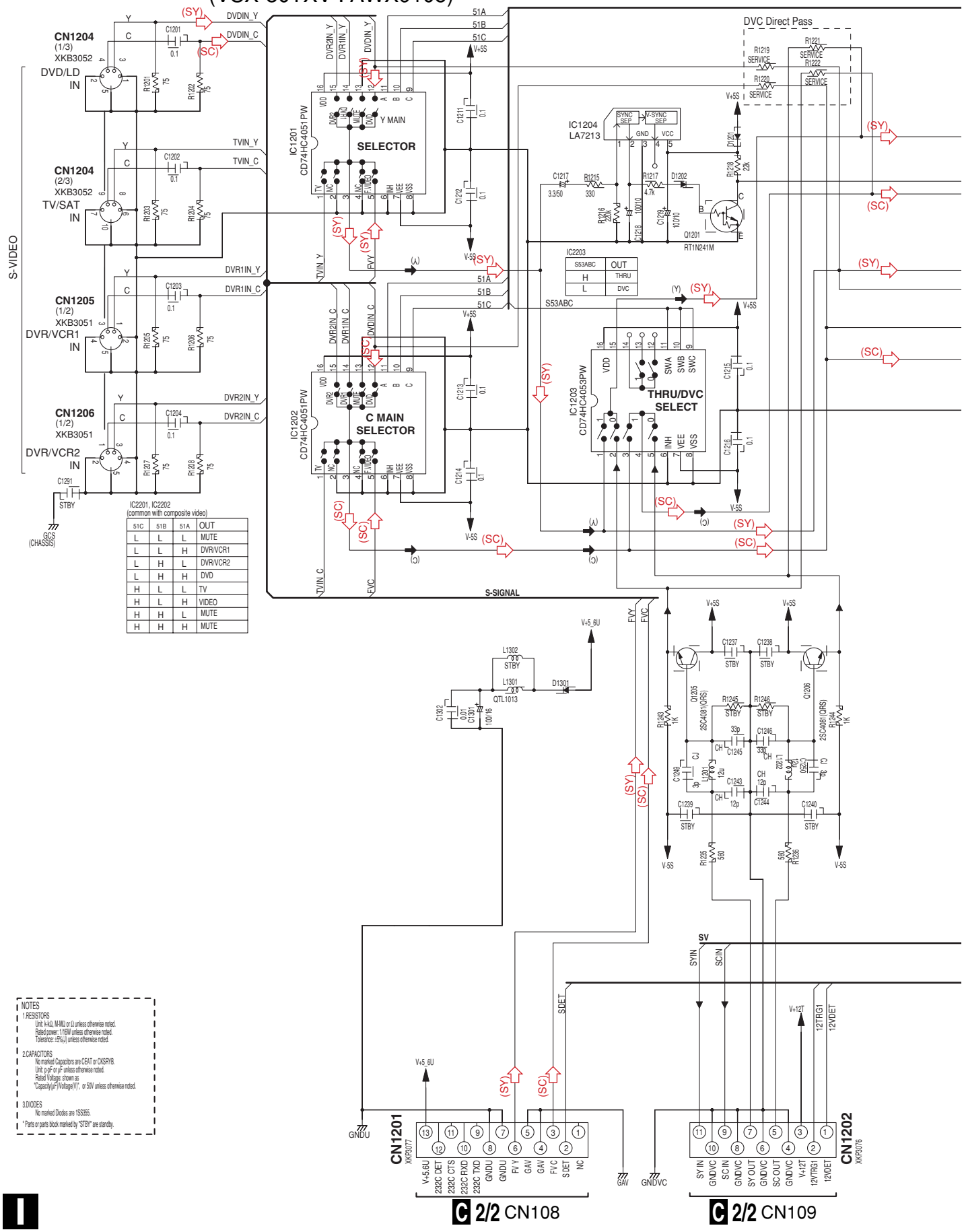




NOTES
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or μ-μF unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.
3.DIODES
No marked Diodes are 1SS355.
*Parts or parts block marked by "STBY" are standby.

3.13 S-VIDEO and BRIDGE 2 ASSYS

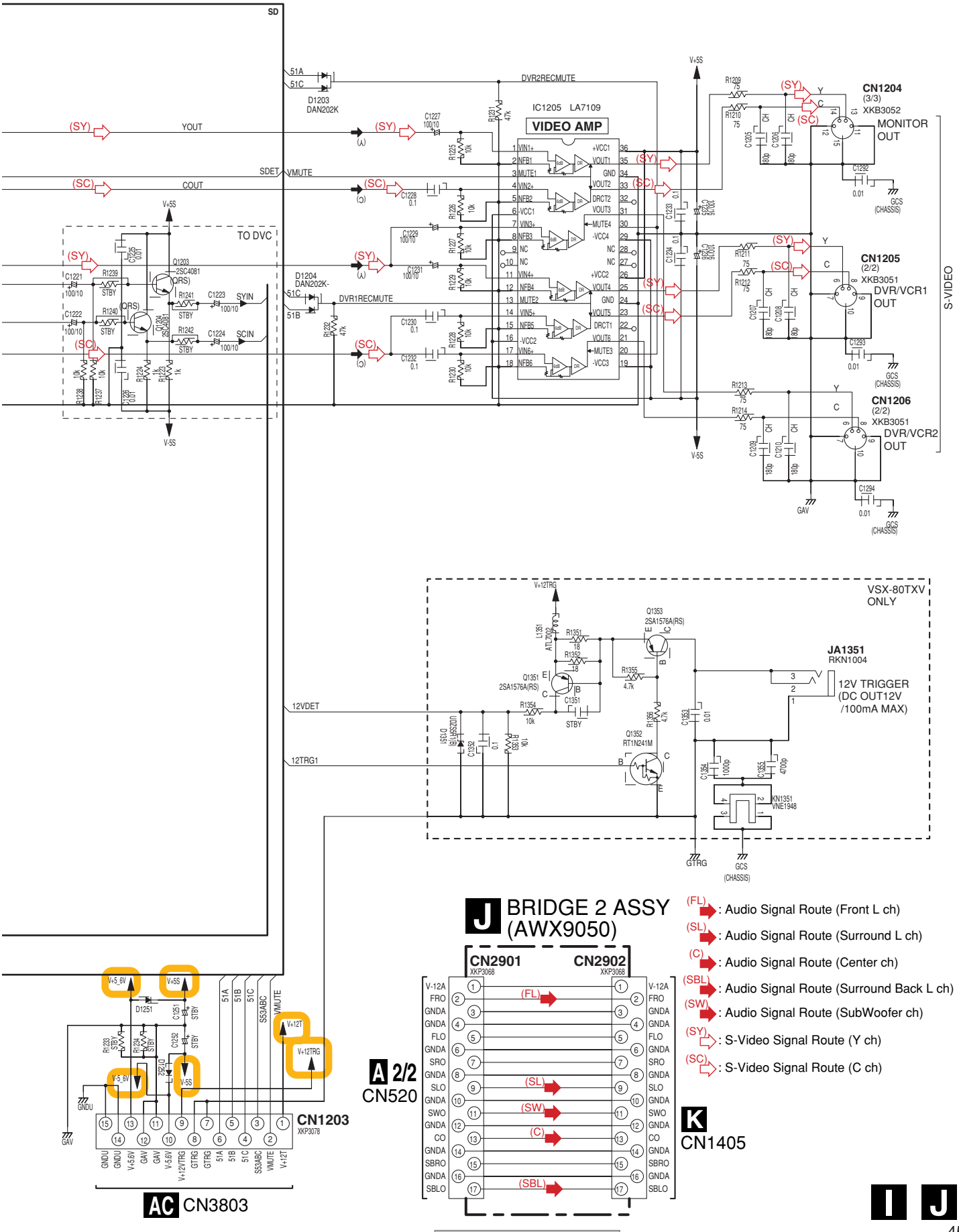
S-VIDEO ASSY (VSX-1016V, VSX-1016TXV : AWX9099) (VSX-80TXV : AWX9105)



NOTES
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or µF unless otherwise noted.
Rated Voltage: shown as "Capacity(µF)/Voltage(V)", or 50V unless otherwise noted.

3.DIODES
No marked Diodes are 1SS355.
* Parts or parts block marked by "STBY" are standby.



J BRIDGE 2 ASSY (AWX9050)

A 2/2

AC CN3803

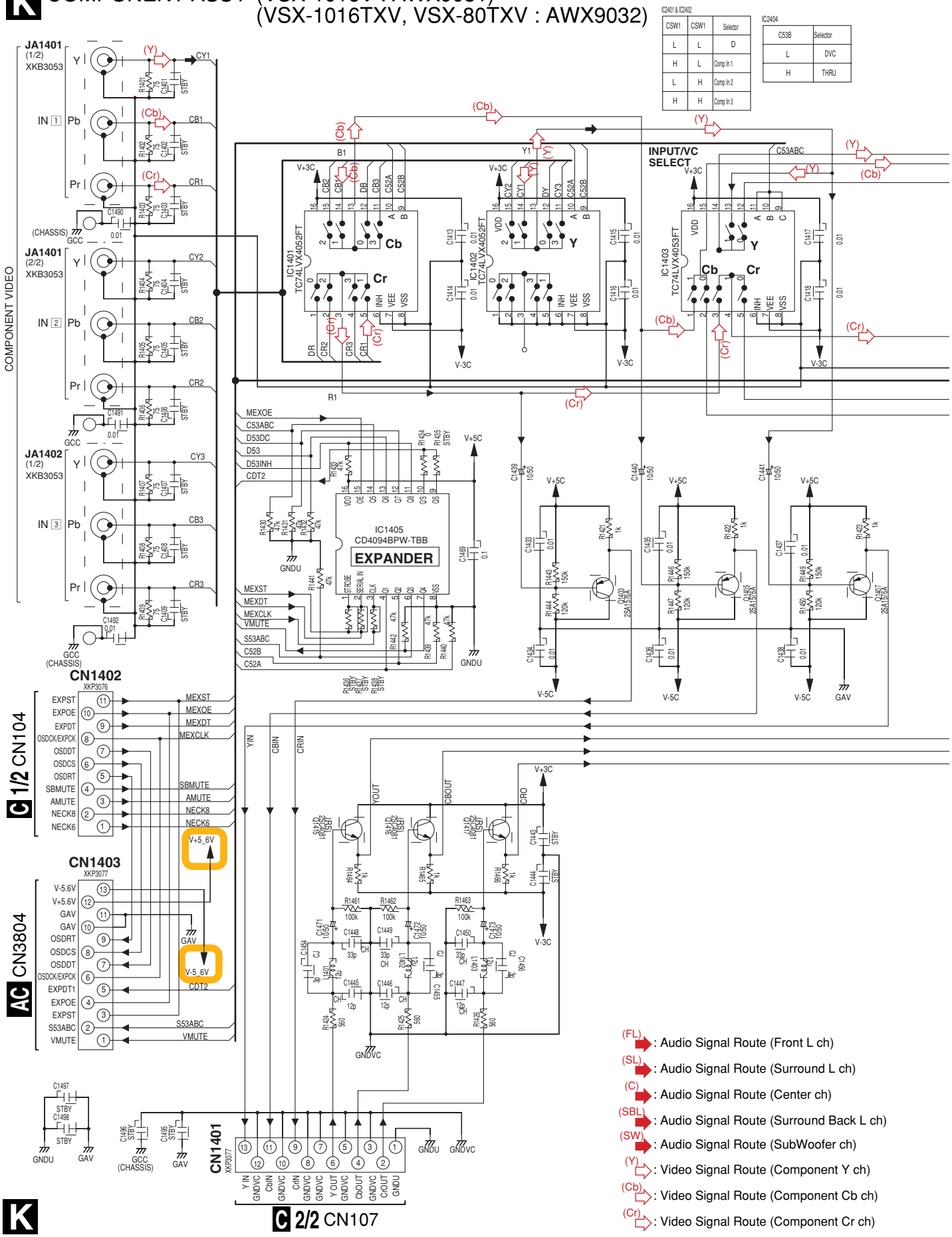
K

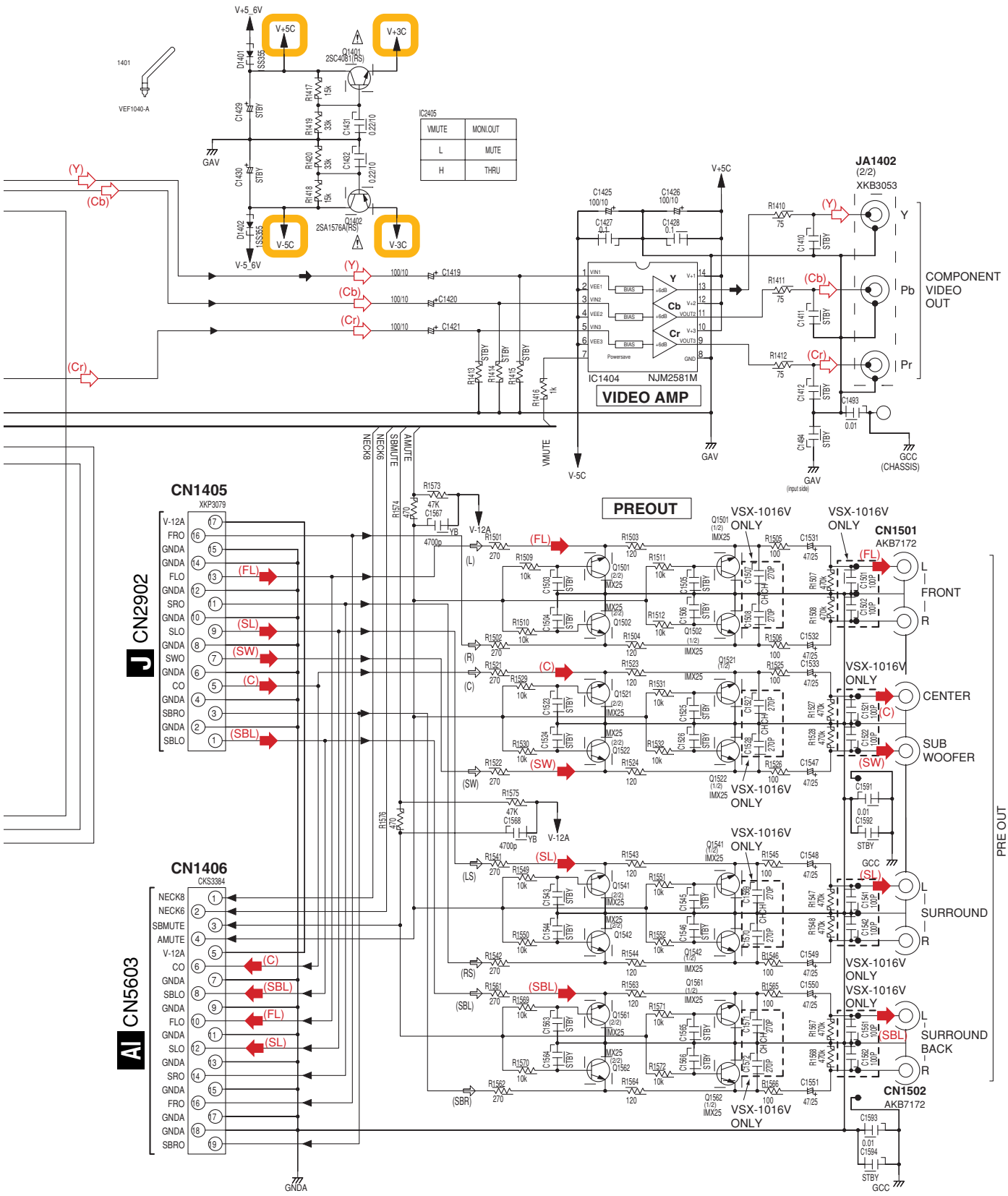
I J

VSX-1016V-K

3.14 COMPONENT ASSY

K COMPONENT ASSY (VSX-1016V : AWX9031)
(VSX-1016TXV, VSX-80TXV : AWX9032)





NOTES

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

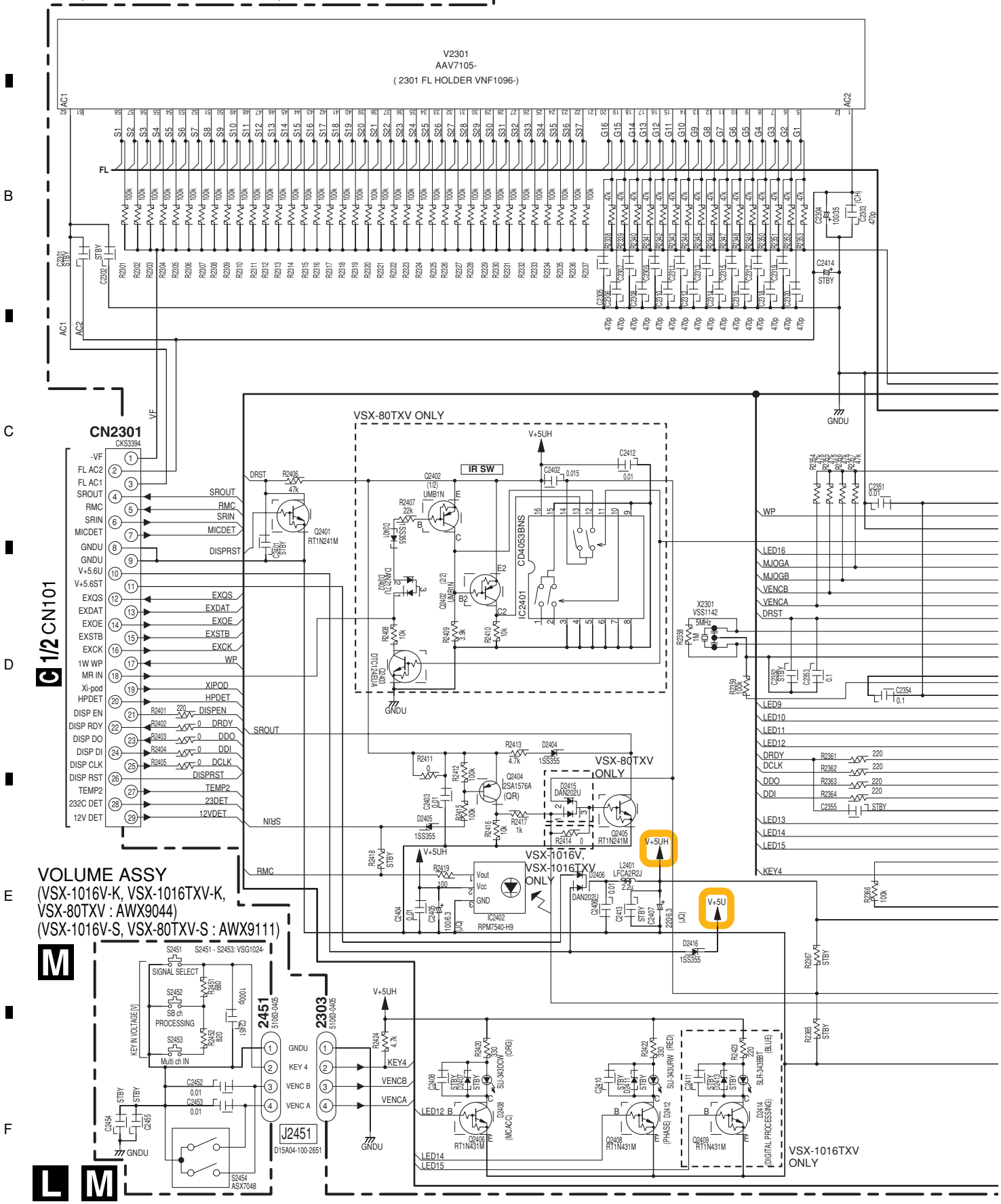
2.DIODES
No marked Diodes are 1SS355.

* Parts or parts block marked by "STBY" are standby.

3.CAPACITORS
No marked Capacitors are CEAT or CKSRYB
Unit: p-pF or μ-F unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

3.15 DISPLAY, VOLUME and MULTI JOG ASSYS

L DISPLAY ASSY
(VSX-1016V : AWX9104)
(VSX-1016TXV : AWX9042)
(VSX-80TXV : AWX9043)



N MULTI JOG ASSY
(VSX-1016V-K, VSX-1016TXV-K, VSX-80TXV : AWX9046)
(VSX-1016V-S, VSX-80TXV-S : AWX9113)

VOLUME ASSY
S2451 : SIGNAL SELECT
S2452 : SBch PROCESSING
S2453 : SOUND RETRIEVER
S2454 : MASTER VOLUME

MULTI JOG ASSY
S2501 : MULTI JOG
S2551 : DVR/VCR2
S2552 : VIDEO/GAME
S2553 : CD
S2554 : CD-R/TAPE/MD
S2555 : FM/AM
S2556 : USB (XM)
S2557 : MULTI CH IN
S2558 : VIDEO SELECT
S2561 : ENTER
S2562 : SYSTEM SETUP
S2563 : RETURN
S2564 : TONE
S2565 : TUNING/STATION
S2566 : TUNER EDIT
S2567 : SPEAKERS
S2571 : ⏻ STANDBY/ON
S2572 : PHASE CONTROL (MULTI ROOM)
S2573 : PTY SEARCH (MULTI ROOM CONTROL)
S2574 : LISTENING MODE
S2575 : DVD/LD
S2576 : TV/SAT
S2577 : DVR/VCR1

D20PDD1715E
J2501
2302 51048-1700
2501 51048-1700

NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
3.DIODES
Indicated in 1SS355.
4.TACT SWITCHES
Indicated in VSG1024.

IC2501
CD4094BNS
EXPANDER

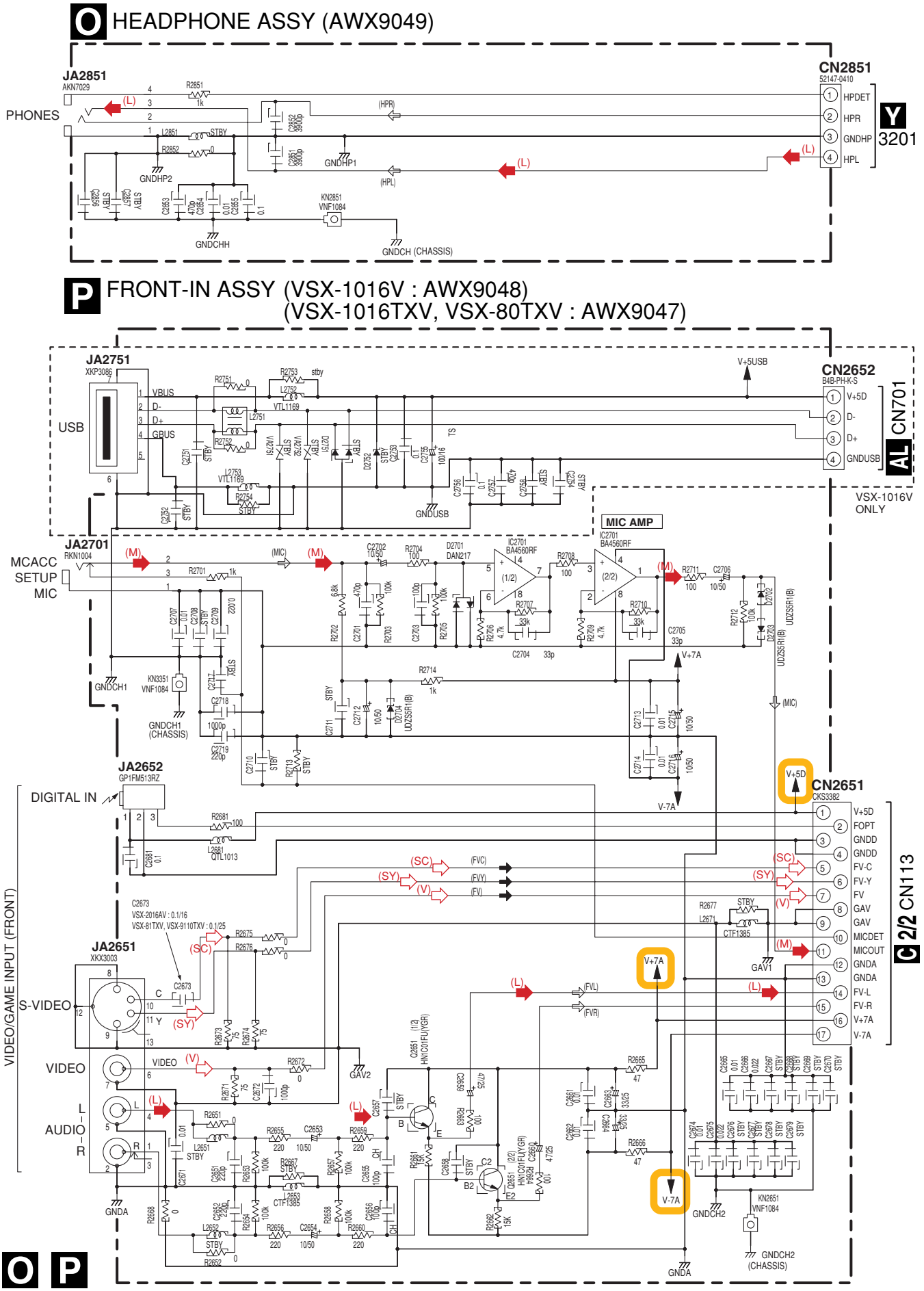
IC2301
PE5503A
(NEC)
DISPLAY U-COM

25kΩ Min
70kΩ Typ
135kΩ Max

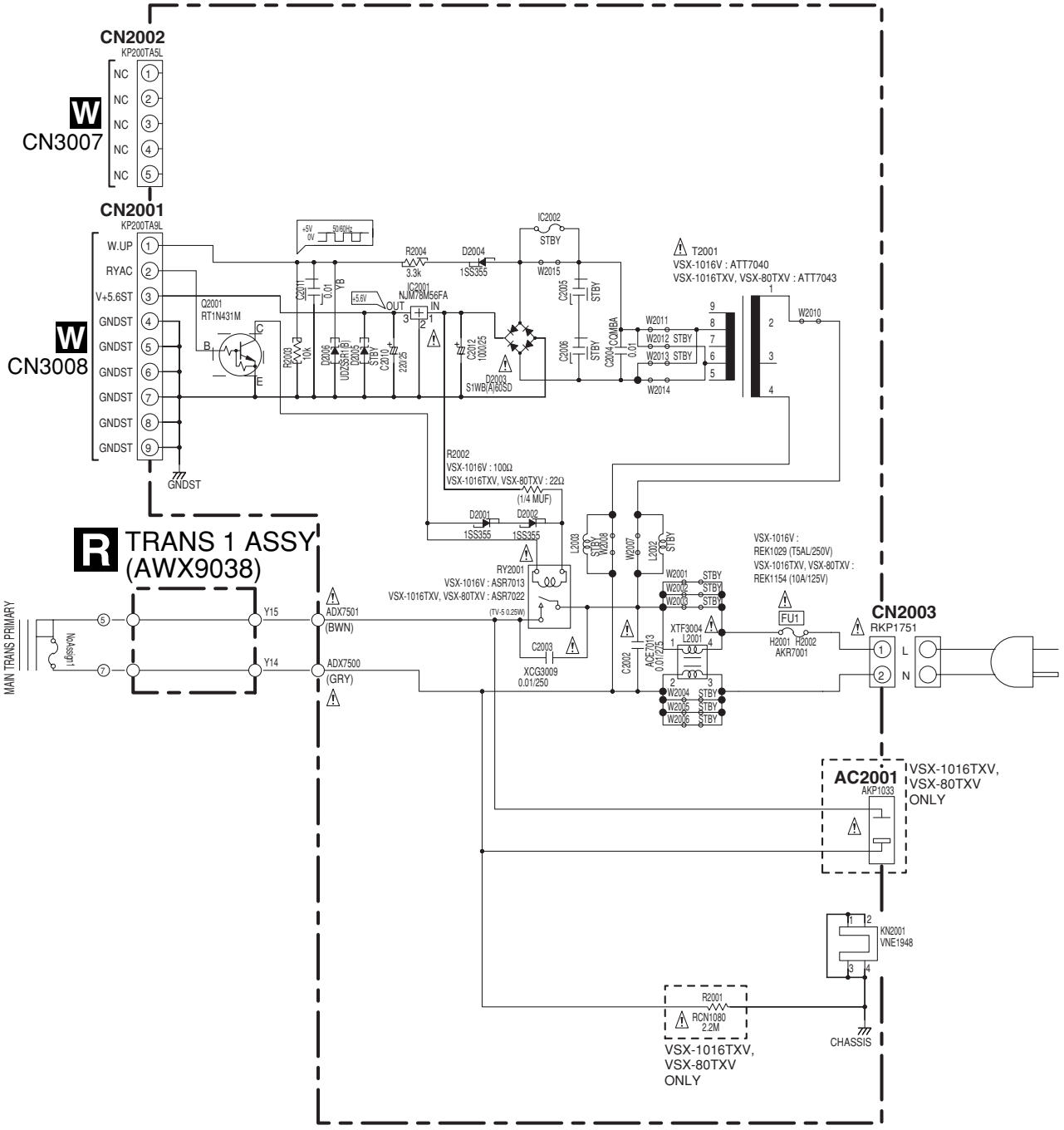
S2551 - S2577: VSG1024-

KEY IN VOLTAGE [V]

3.16 HEADPHONE, FRONT-IN, PRIMARY and TRANS 1 ASSYS



Q PRIMARY ASSY (VSX-1016V : AWX9086)
(VSX-1016TXV, VSX-80TXV : AWX9085)



• NOTE FOR FUSE REPLACEMENT

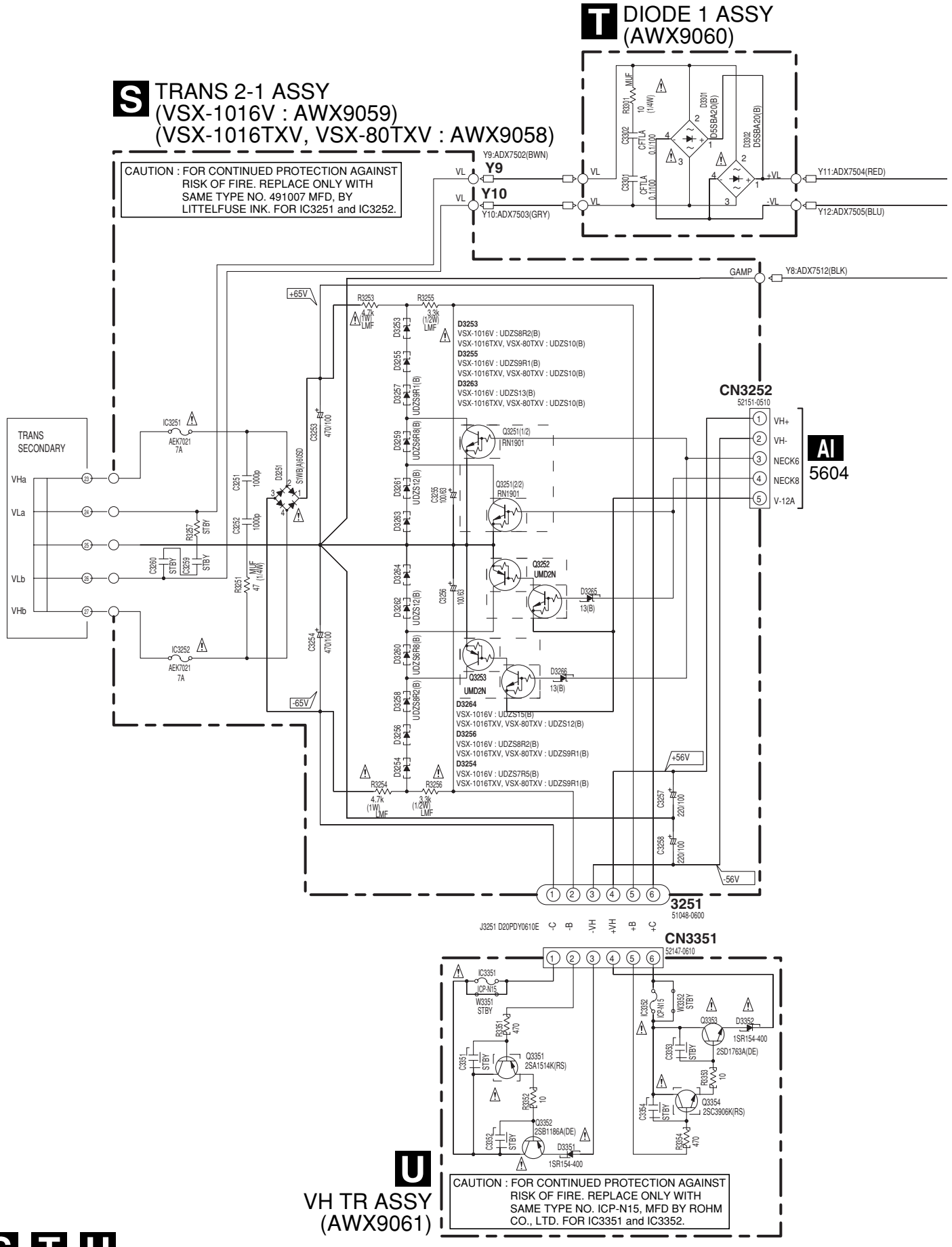
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

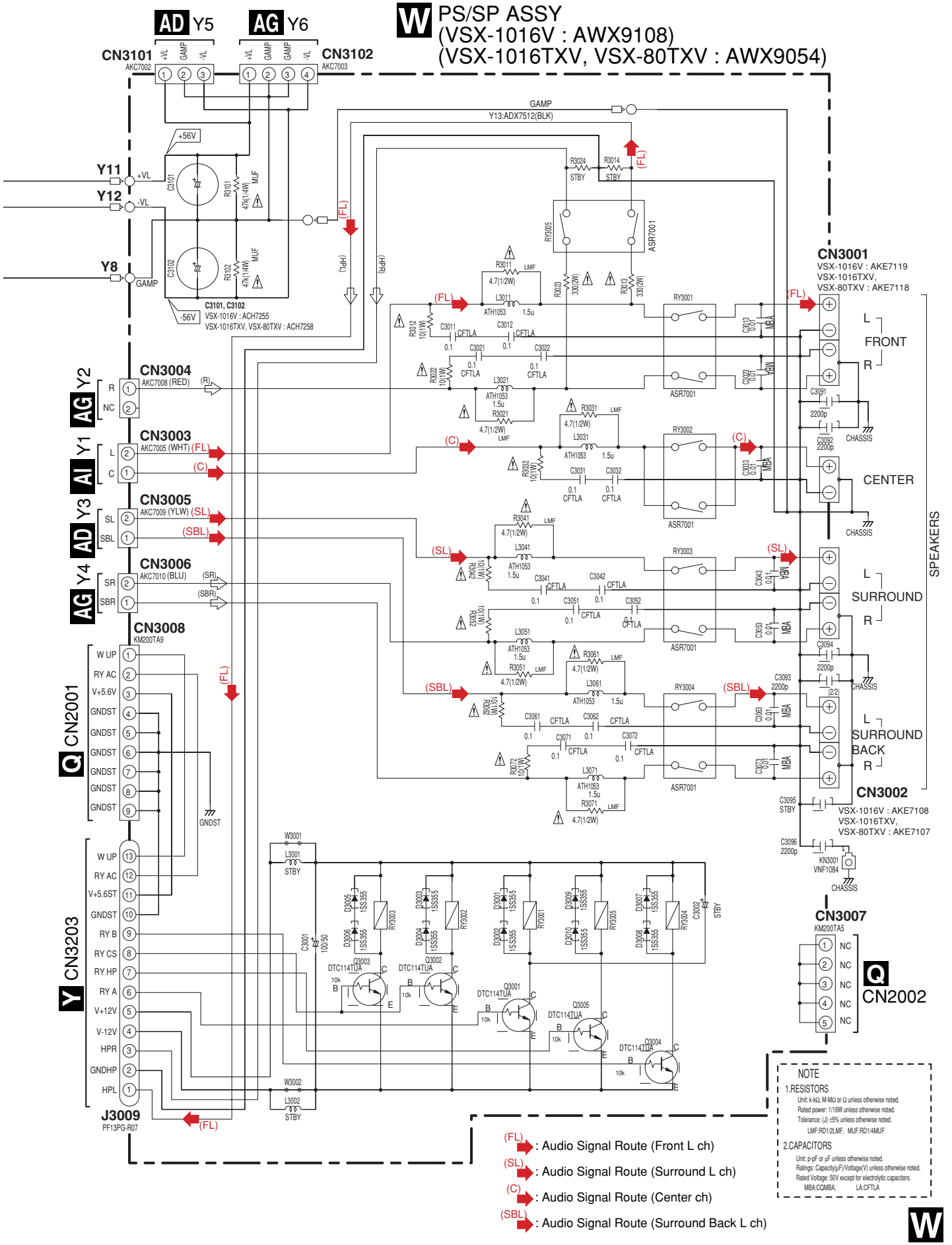
NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
3.DIODES
Indicated in 1SS355.

(L) : Audio Signal Route (L ch)
(M) : Audio Signal Route (Mic ch)
(V) : Video Signal Route
(SY) : S-Video Signal Route (Y ch)
(SC) : S-Video Signal Route (C ch)

Q R

3.17 TRANS 2-1, DIODE 1, VH TR and PS/SP ASSYS




W PS/SP ASSY
(VSX-1016V : AWX9108)
(VSX-1016TXV, VSX-80TXV : AWX9054)
AD Y5
AG Y6
CN3101
AKC7002
CN3102
AKC7003
+VL
GAMP
-VL
Y11
Y12
Y8
+56V
-56V
C3101, C3102
VSX-1016V : ACH7255
VSX-1016TXV, VSX-80TXV : ACH7258
CN3001
VSX-1016V : AKE7119
VSX-1016TXV,
VSX-80TXV : AKE7118
L FRONT R
CENTER
L SURROUND R
L SURROUND BACK R
SPEAKERS
CN3002
VSX-1016V : AKE7108
VSX-1016TXV,
VSX-80TXV : AKE7107
CN3004
AKC7008 (RED)
CN3003
AKC7005 (WHT)
CN3005
AKC7009 (YLW)
CN3006
AKC7010 (BLU)
CN3008
KM200TA9
CN2001
CN3203
J3009
PF13PG-R07
CN3007
KM200TA5
CN2002
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)
NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
LMF:RD1/2LMF, MUF:RD1/4MUF
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
MBA:COMBA, LA:CFTLA

3.18 TRANS 2-2, TRANS SIDE, LOCAL P-SUPPLY, DC/DC, IR I/O and VIDEO CONNECT ASSYS

Z LOCAL P-SUPPLY ASSY
(VSX-1016V : AWX9068)
(VSX-1016TXV, VSX-80TXV : AWX9065)

• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

FU4
VSX-1016V : REK1028 (T4AL/250V)
VSX-1016TXV, VSX-80TXV : REK1067 (5A/125V)
FU5, FU6
VSX-1016V : REK1021 (T800mAL/250V)
VSX-1016TXV, VSX-80TXV : REK1143 (1.25A/125V)
FU7, FU8
VSX-1016V : REK1026 (T2.5AL/250V)
VSX-1016TXV, VSX-80TXV : REK1146 (2.5A/125V)

J3401 PF12PG-R40 — CN3501 B12B-PH-K-S

FL, VREG, DREG, AREG — FU8, FU7, FU4, FU5, FU6

X TRANS 2-2 ASSY (AWX9062)

T1501 MAIN TRANS.
VSX-1016V : ATS7408
VSX-1016TXV, VSX-80TXV : ATS7407

NOTE 1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.

Y TRANS SIDE ASSY (AWX9056)

J3201 D20PDY0410E — CN2851 O: HPDET, HPR, GNDHP, HPL

3201 51048-0400

CN5705 AJ: V+FAN, V+FAN, V-FAN, V-FAN, LOCK DET, V-12V, V+12V, RY A, RY HP, RY CS, RY B, GNDST, GNDST, V+5.6ST, RY AC, W UP, HPDET

CN3202 CKS3382

CN3203 S13B-PH-K-S — HPL, GNDHP, HPR, V-12V, V+12V, RY A, RY HP, RY CS, RY B, GNDST, V+5.6ST, RY AC, W UP

R3202 - R3214,L3202 - L3214:STBY

W J3009

3506 51048-0400 — DREG ×4

J3506 D20PDY0410E

CN652 52147-0410

CHASSIS — KN651 VNE1948

AA DC/DC ASSY (AWX9098)

VSX-1016V ONLY

FAN — Q3502 2SD1763A(DE)

Q3501 UMD2N (2/2), Q3501 UMD2N (1/2)

IC3501 STBY, IC3502 AEK7012, IC3503 STBY, IC3504 NJM78M05FA, IC3505 NJM78M56FA, IC3506 NJM79M05FA, IC651 PQ1CG3032FZ

D3504,D3505, D3506,D3507: UDZS6R2(B)

D3512 D3SBA20(B), D653 D3SBA20(B)

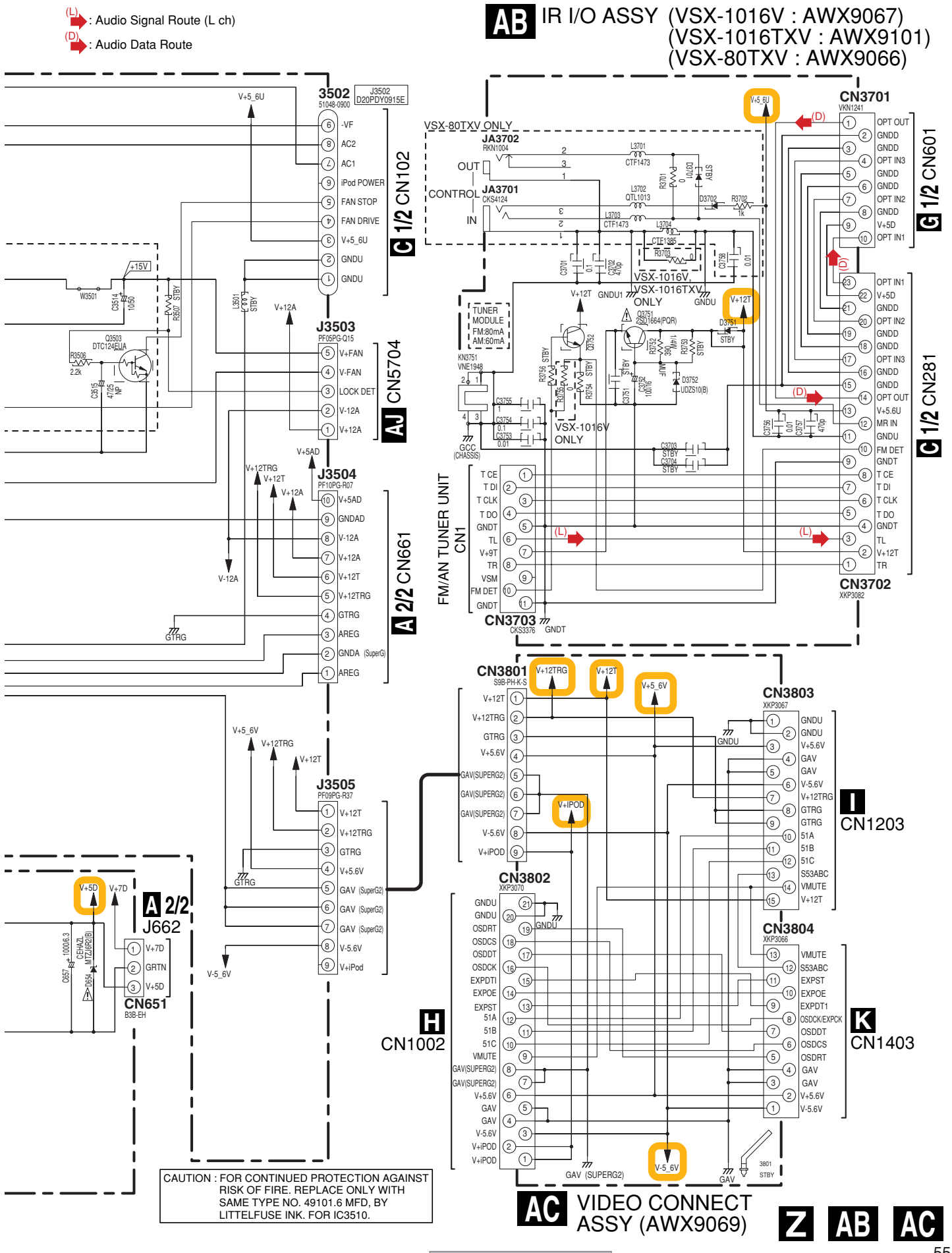
AD+5V, VIDEO ± 5.6V

V+IPOD, V+5AD, V+5_6V, V+5_6U, V-5_6V

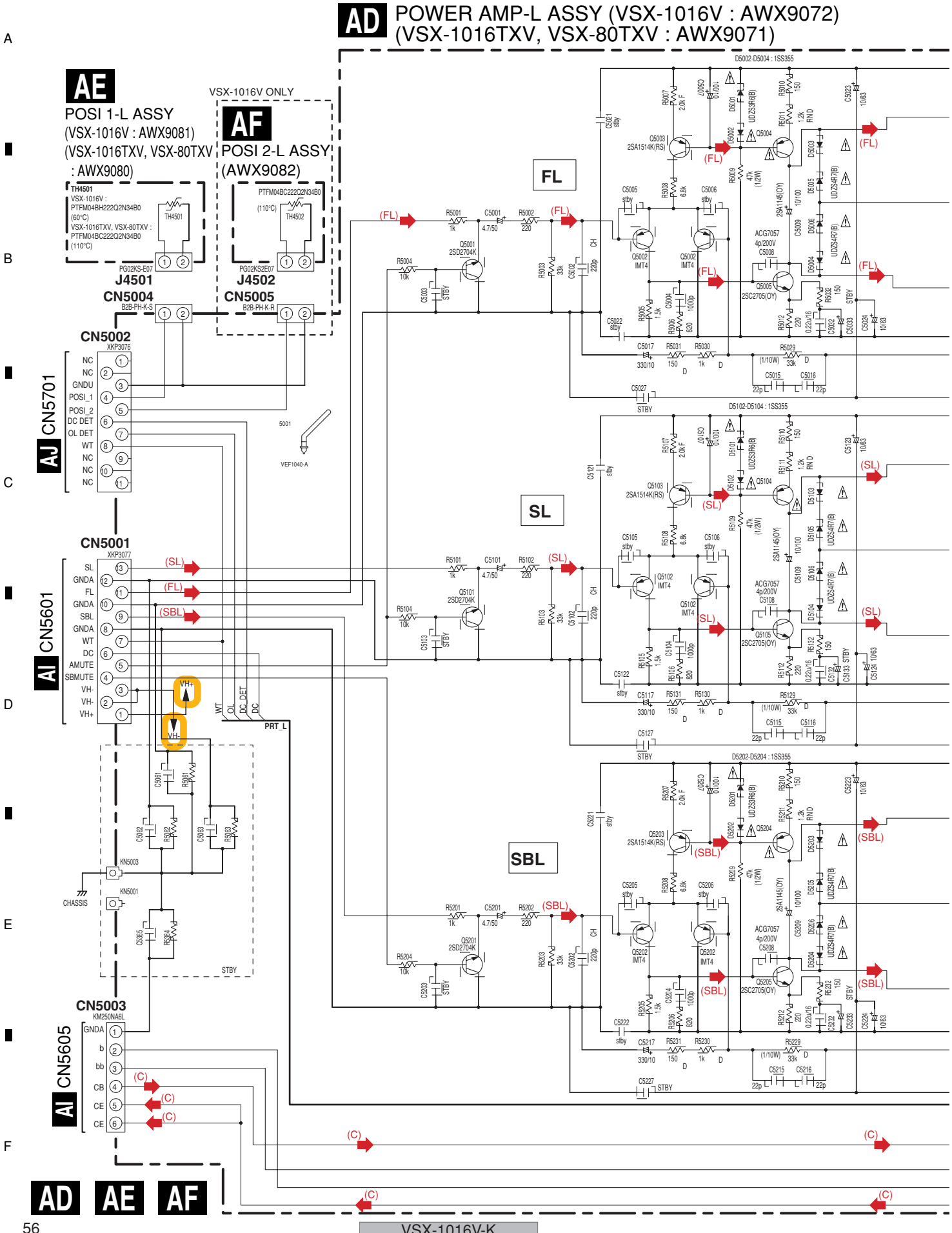
+13V, +12V, -12V, -28V, -5.6V, +5V, +5.6V, GNDU

R652 - R654 : D%

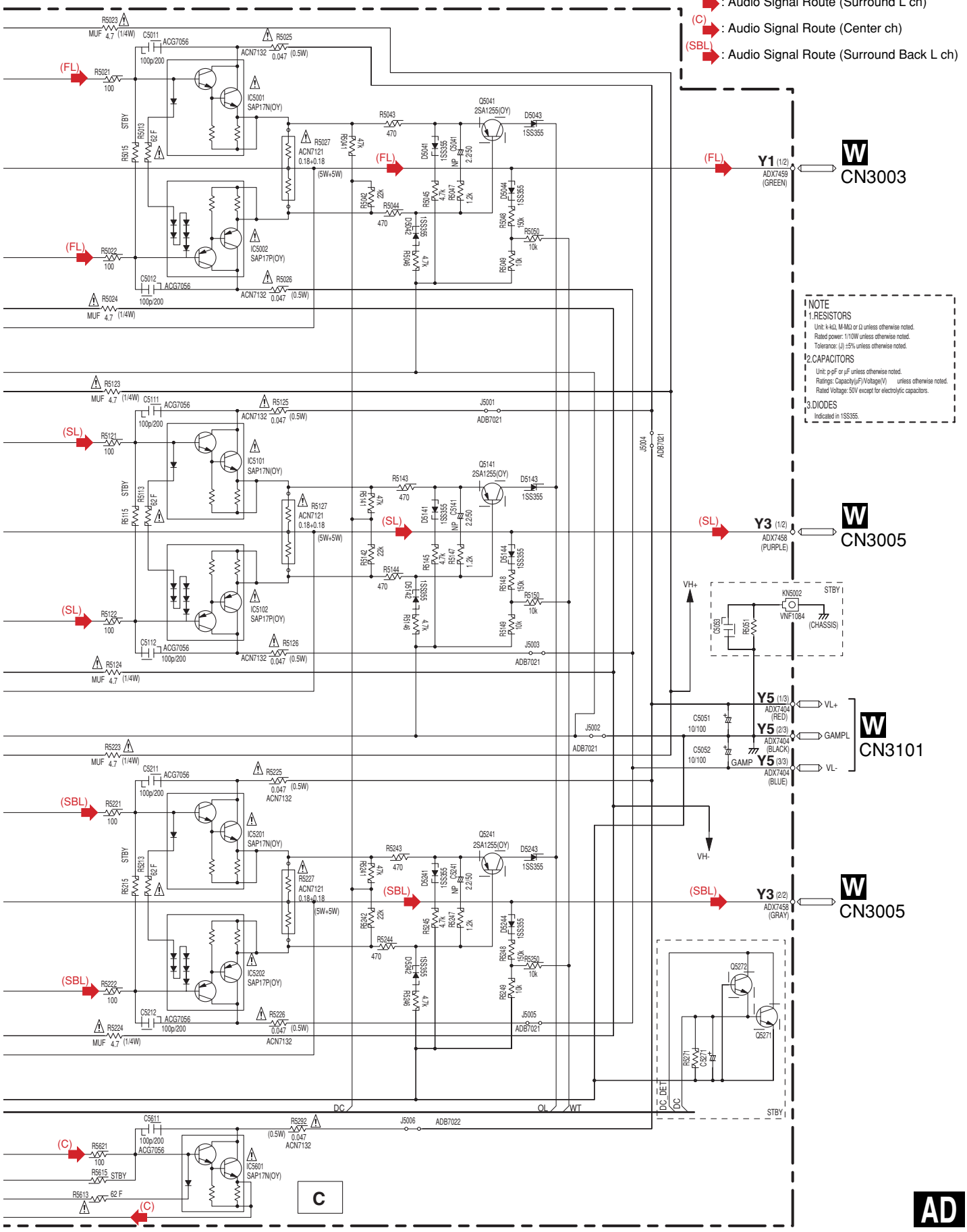
VEF1040-A, STBY


(L) : Audio Signal Route (L ch)
(D) : Audio Data Route
AB IR I/O ASSY (VSX-1016V : AWX9067)
(VSX-1016TXV : AWX9101)
(VSX-80TXV : AWX9066)
3502
51048-0900
J3502
D20PDY0915E
-VF
AC2
AC1
iPod POWER
FAN STOP
FAN DRIVE
V+5_6U
GNDU
GNDU
C 1/2 CN102
J3503
PF05PG-Q15
V+FAN
V-FAN
LOCK DET
V-12A
V+12A
AJ CN5704
J3504
PF10PG-R07
V+5AD
GNDAD
V-12A
V+12A
V+12T
V+12TRG
GTRG
AREG
GNDA (SuperG)
AREG
A 2/2 CN661
J3505
PF09PG-R37
V+12T
V+12TRG
GTRG
V+5.6V
GAV (SuperG2)
GAV (SuperG2)
GAV (SuperG2)
V-5.6V
V+iPod
A 2/2
J662
V+7D
GRTN
V+5D
CN651
B3B-EH
VSX-80TXV ONLY
JA3702
RKN1004
JA3701
CKS4124
OUT
CONTROL
IN
L3701
CTF1473
L3702
QTL1013
L3703
CTF1473
L3704
CTE1385
D3702
R3702
1k
R3703
0
R3701
0
D3701
STBY
C3701
0.1
C3702
470p
C3758
0.01
VSX-1016V,
VSX-1016TXV
ONLY
V+12T
GNDU1
GNDU
TUNER
MODULE
FM:80mA
AM:60mA
KN3751
VNE1948
Q3751
2SD1664(PQR)
D3751
D3752
UDZS10(B)
R3752
390
1/4W
R3753
C3751
C3752
100/16
C3754
0.1
C3753
0.01
C3755
1
VSX-1016V
ONLY
GCC
(CHASSIS)
C3703
STBY
C3704
STBY
FM/AN TUNER UNIT
CN1
T CE
T DI
T CLK
T DO
GNDT
TL
V+9T
TR
VSM
FM DET
GNDT
CN3703
CKS3376
GNDT
CN3701
VKN1241
OPT OUT
GNDD
GNDD
OPT IN3
GNDD
GNDD
OPT IN2
GNDD
V+5D
OPT IN1
G 1/2 CN601
OPT IN1
V+5D
GNDD
OPT IN2
GNDD
GNDD
OPT IN3
GNDD
GNDD
OPT OUT
V+5.6U
MR IN
GNDU
FM DET
GNDT
T CE
T DI
T CLK
T DO
GNDT
TL
V+12T
TR
C 1/2 CN281
CN3702
XKP3082
CN3801
S9B-PH-K-S
V+12T
V+12TRG
GTRG
V+5.6V
GAV(SUPERG2)
GAV(SUPERG2)
GAV(SUPERG2)
V-5.6V
V+iPOD
V+iPOD
CN3802
XKP3070
GNDU
GNDU
OSDRT
OSDCS
OSDDT
OSDCK
EXPDTI
EXPOE
EXPST
51A
51B
51C
VMUTE
GAV(SUPERG2)
GAV(SUPERG2)
V+5.6V
GAV
GAV
V-5.6V
V+iPOD
V+iPOD
H CN1002
CN3803
XKP3067
GNDU
GNDU
V+5.6V
GAV
GAV
V-5.6V
V+12TRG
GTRG
GTRG
51A
51B
51C
S53ABC
VMUTE
V+12T
I CN1203
CN3804
XKP3066
VMUTE
S53ABC
EXPST
EXPOE
EXPDT1
OSDCK/EXPCK
OSDDT
OSDCS
OSDRT
GAV
GAV
V+5.6V
V-5.6V
K CN1403
V+5_6V
GAV (SUPERG2)
GAV
3801
STBY
CAUTION : FOR CONTINUED PROTECTION AGAINST
RISK OF FIRE. REPLACE ONLY WITH
SAME TYPE NO. 49101.6 MFD, BY
LITTELFUSE INK. FOR IC3510.
AC VIDEO CONNECT
ASSY (AWX9069)
Z AB AC

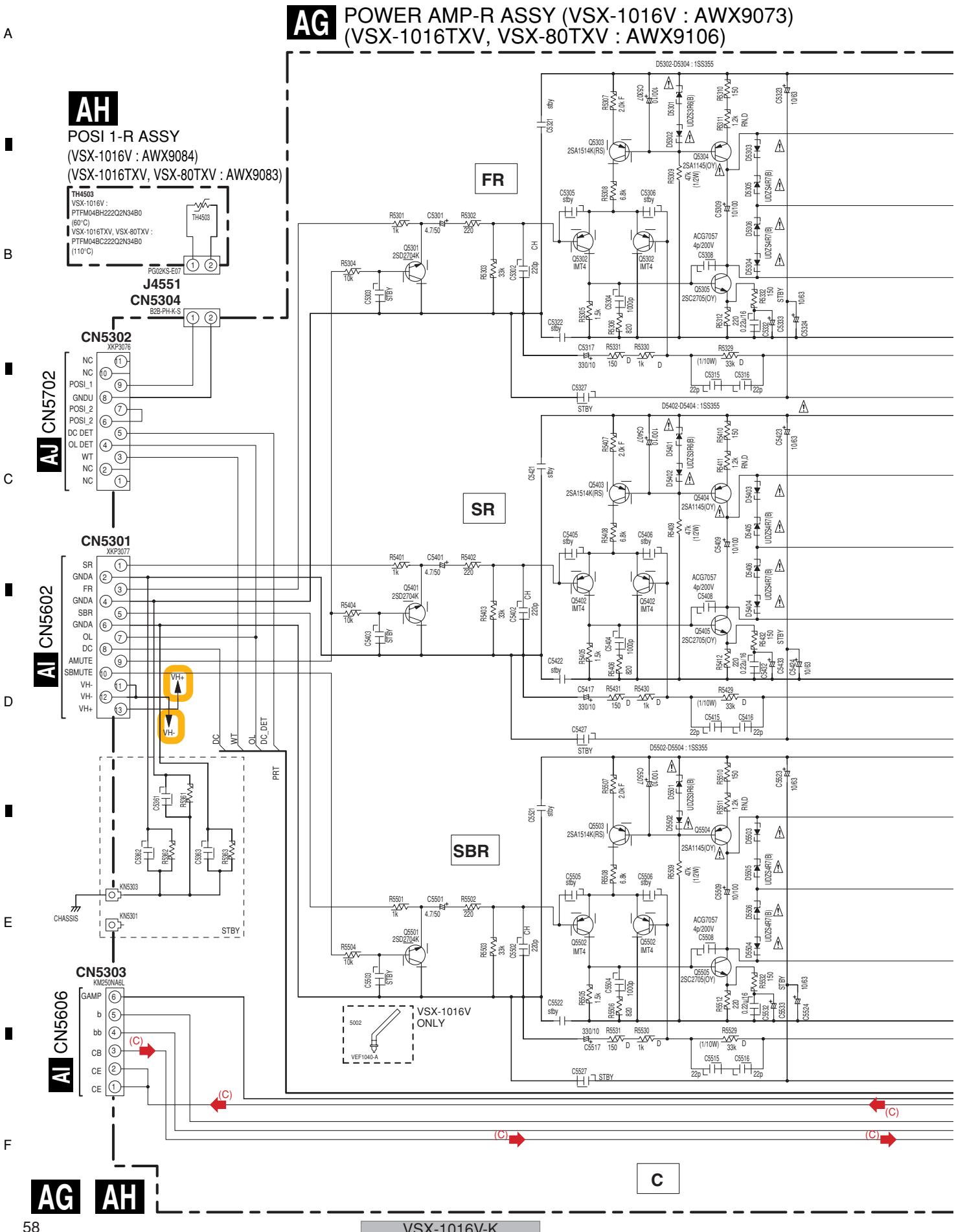
3.19 POWER AMP-L, POSI 1-L and POSI 2-L ASSYS



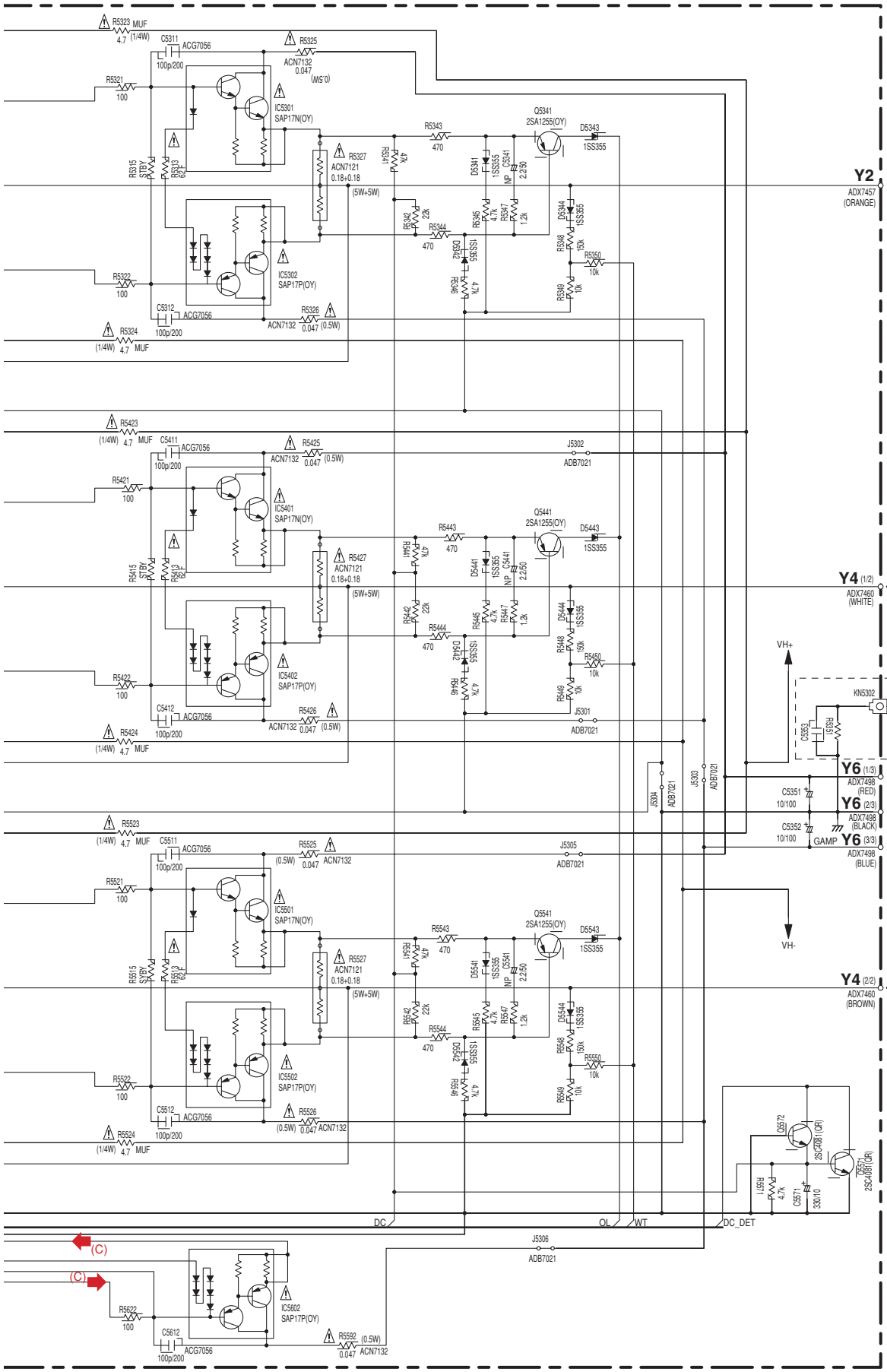
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)



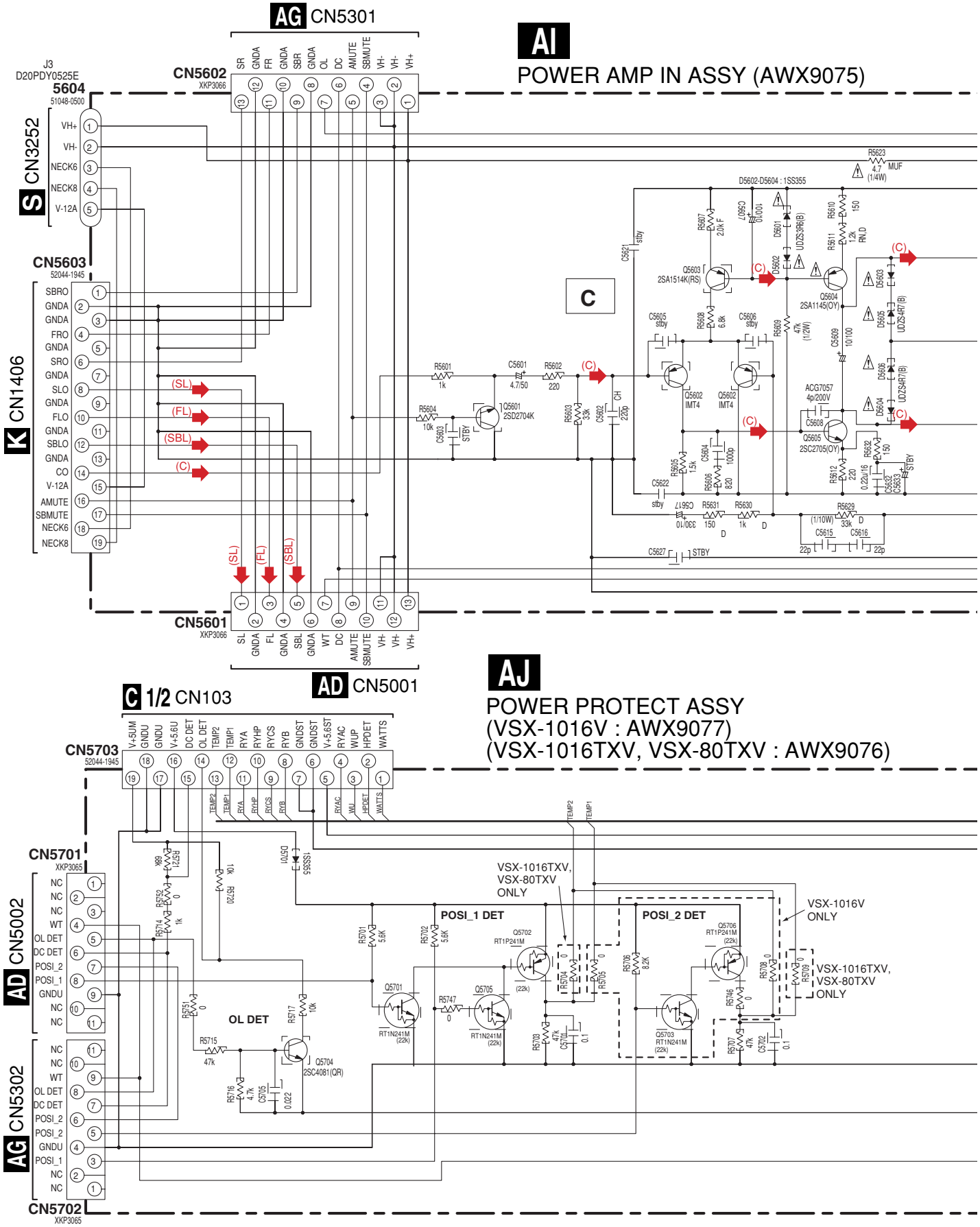
3.20 POWER AMP-R and POSI 1-R ASSYS



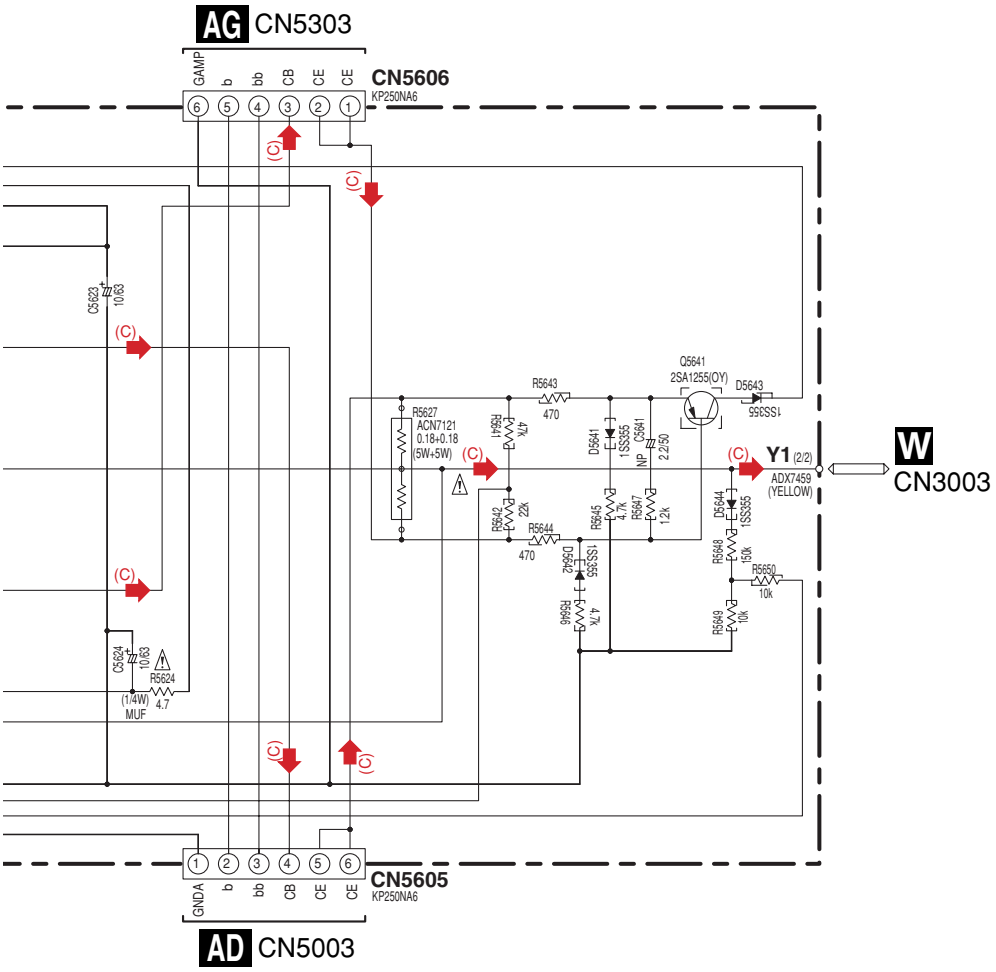
(C) : Audio Signal Route (Center ch)



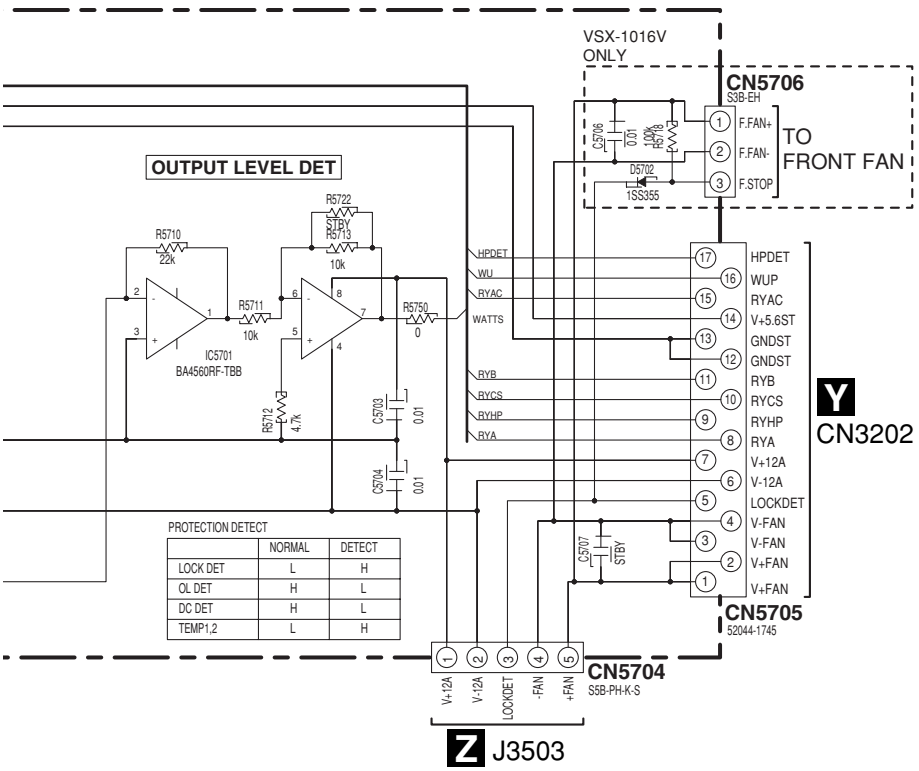
3.21 BRIDGE 1-L, POWER AMP IN and POWER PROTECT ASSYS



(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)

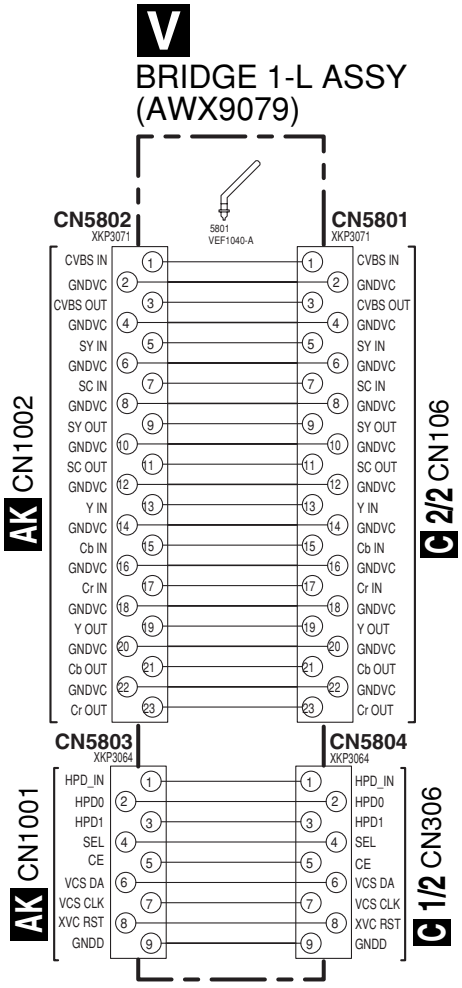


NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.



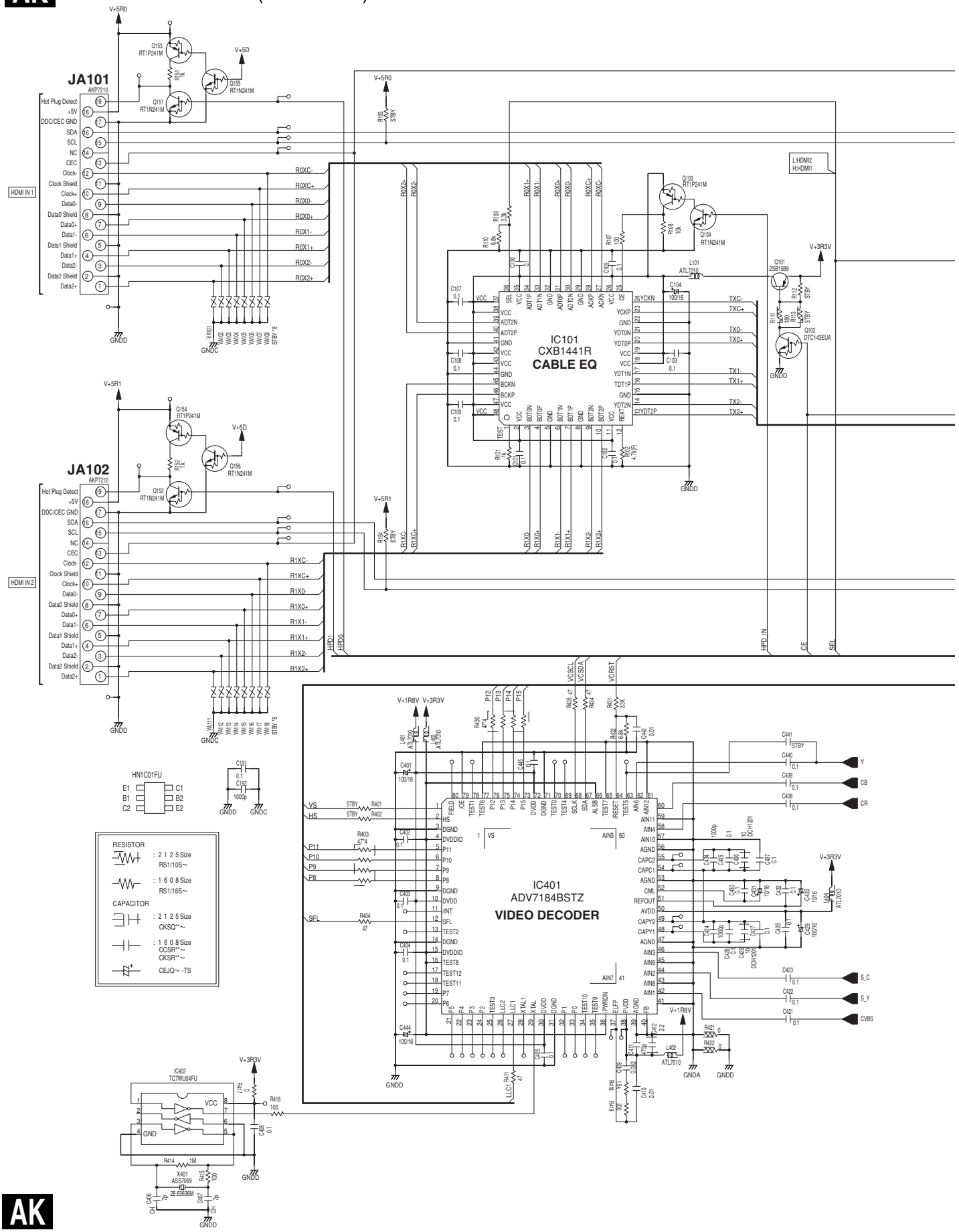
PROTECTION DETECT

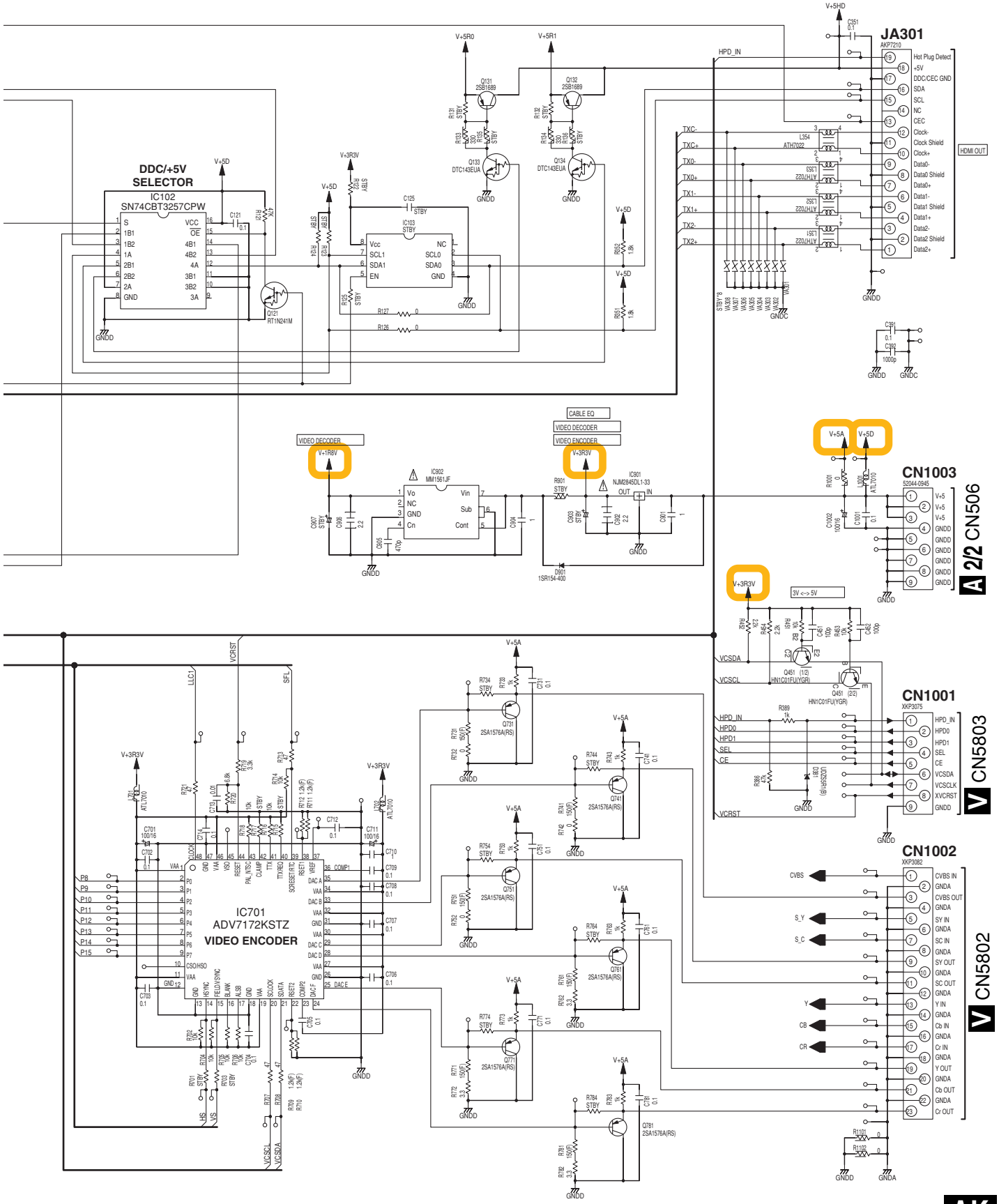
	NORMAL	DETECT
LOCK DET	L	H
OL DET	H	L
DC DET	H	L
TEMP1,2	L	H


V
BRIDGE 1-L ASSY (AWX9079)
5801 VEF1040-A
CN5802 XKP3071
CN5801 XKP3071
CVBS IN GNDVC CVBS OUT GNDVC SY IN GNDVC SC IN GNDVC SY OUT GNDVC SC OUT GNDVC Y IN GNDVC Cb IN GNDVC Cr IN GNDVC Y OUT GNDVC Cb OUT GNDVC Cr OUT
AK CN1002
C 2/2 CN106
CN5803 XKP3064
CN5804 XKP3064
HPD_IN HPD0 HPD1 SEL CE VCS DA VCS CLK XVC RST GNDD
AK CN1001
C 1/2 CN306

3.22 HDMI & DVC ASSY

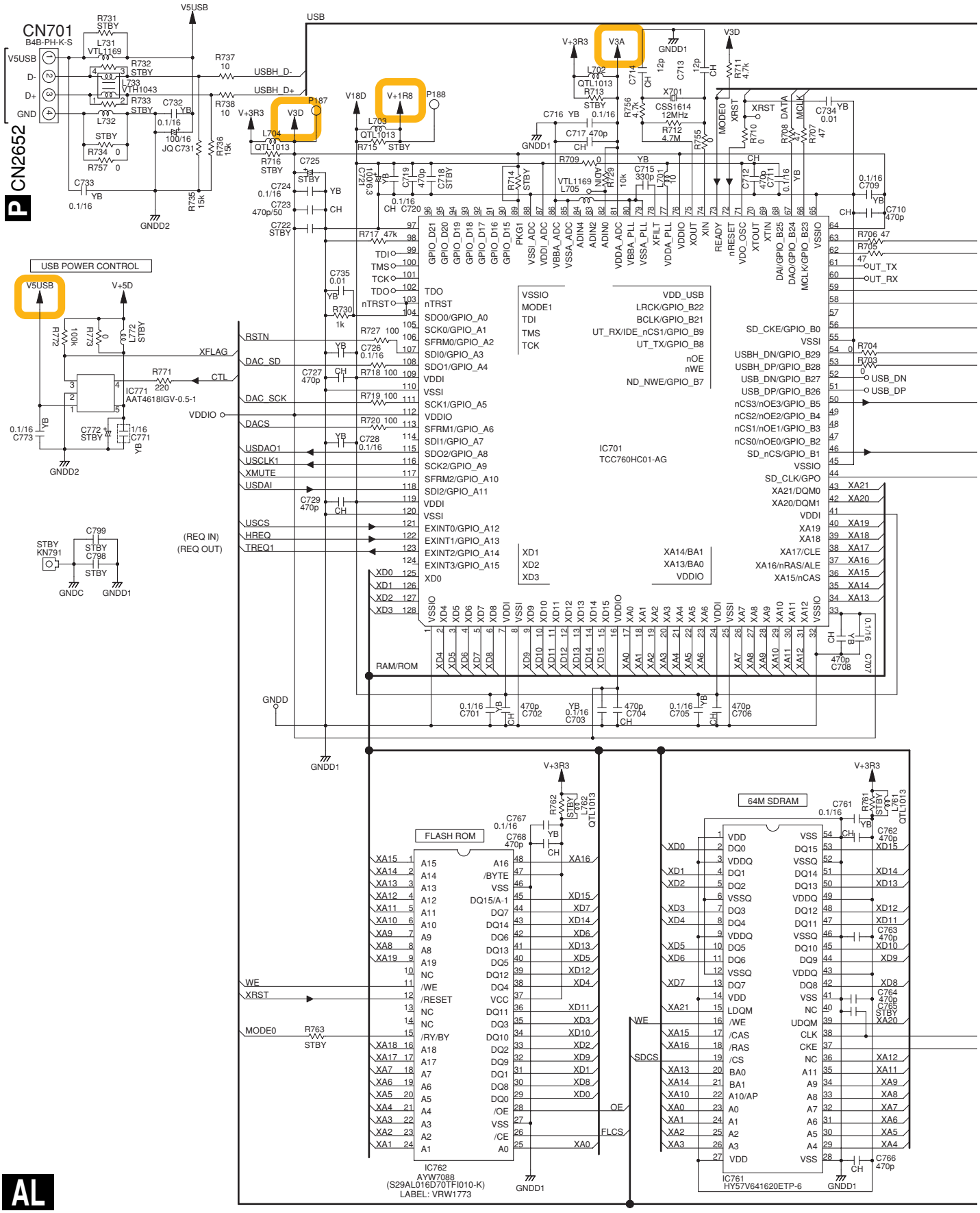
AK HDMI & DVC ASSY (AWQ7036)

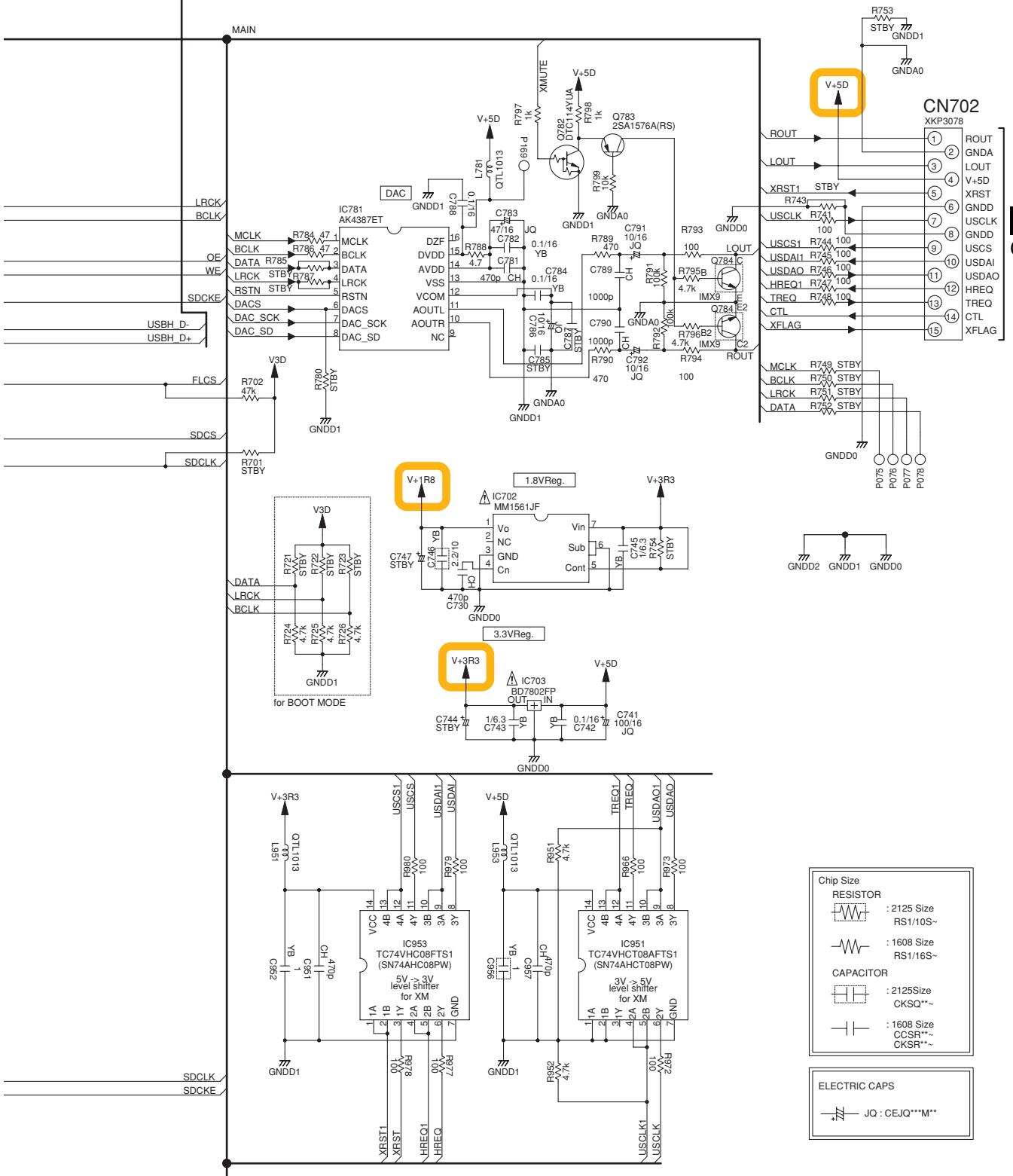



JA301
AKP7210
Hot Plug Detect
+5V
DDC/CEC GND
SDA
SCL
NC
CEC
Clock-
Clock Shield
Clock+
Data0-
Data0 Shield
Data0+
Data1-
Data1 Shield
Data1+
Data2-
Data2 Shield
Data2+
HDMI OUT
HPD_IN
TXC-
TXC+
TXO-
TXO+
TX1-
TX1+
TX2-
TX2+
DDC/+5V SELECTOR
IC102
SN74CBT3257CPW
IC103
IC701
ADV7172KSTZ
VIDEO ENCODER
CABLE EQ
VIDEO DECODER
VIDEO ENCODER
IC902
MM1561UF
IC901
NJM2845DL1-33
CN1003
52044-0945
A 2/2 CN506
CN1001
XKP3075
V CN5803
CN1002
XKP3082
V CN5802
Q451 (1/2)
HN1C01FU(YGR)
Q451 (2/2)
HN1C01FU(YGR)
Q731
Q741
Q751
Q761
Q771
Q781
2SA1576A(RS)
D901
1SR154-400
V+5HD
V+5R0
V+5R1
V+5D
V+3R3V
V+5A
V+1R8V
GNDD
GNDA
GNDC
VCSDA
VCSCL
VCRST
CVBS
S_Y
S_C
Y
CB
CR
3V <--> 5V

3.23 USB ASSY (VSX-1016V ONLY)

AL USB ASSY (AWX8704)




MAIN
CN702
XKP3078
A 2/2
CN516
IC781
AK4387ET
DAC
IC702
MM1561JF
1.8VReg.
3.3VReg.
IC703
BD7802FP
for BOOT MODE
IC953
TC74VHC08FTS1
(SN74AHC08PW)
5V -> 3V
level shifter
for XM
IC951
TC74VHCT08AFTS1
(SN74AHCT08PW)
3V -> 5V
level shifter
for XM
Chip Size
RESISTOR
: 2125 Size
RS1/10S~
: 1608 Size
RS1/16S~
CAPACITOR
: 2125Size
CKSQ**~
: 1608 Size
CCSR**~
CKSR**~
ELECTRIC CAPS
JQ : CEJQ***M**

4. PCB CONNECTION DIAGRAM

4.1 XXXX ASSY

A

B

C

D

E

F

4.2 XXXX ASSY

A

B

C

D

E

F

A

B

C

D

E

F

5. PCB PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω	→ *56 x 10¹* →	*561*	*RD1/4PU 5 6 1 J*
47k Ω	→ *47 x 10³* →	*473*	*RD1/4PU 4 7 3 J*
0.5 Ω	→	*R50*	*RN2H R 5 0 K*
1 Ω	→	*1R0*	*RS1P 1 R 0 K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω	→ *562 x 10¹* →	*5621*	*RN1/4PC 5 6 2 1 F*

- *Meaning of the figures and others in the parentheses in the parts list.*

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	VSX-1016V-K /HYXJ5	VSX-1016V-S /HYXJ5	VSX-1016TXV-K /KUXJ	VSX-80TXV /KUXJCA	VSX-80TXV-S /KUXJCA
NSP	1..MAIN ASSY	AWK7894	AWK7894	AWK7892	AWK7893	AWK7893
	2..MAIN CONTROL ASSY	AWX9018	AWX9018	AWX9016	AWX9017	AWX9017
	2..AUDIO IN ASSY	AWX9022	AWX9022	AWX9027	AWX9088	AWX9088
	2..12V-REG ASSY	AWX9014	AWX9014	AWX9014	AWX9014	AWX9014
	2..GUARD-C ASSY	AWX9051	AWX9051	AWX9051	AWX9051	AWX9051
	2..GUARD-F ASSY	AWX9070	AWX9070	AWX9070	AWX9070	AWX9070
	2..GUARD-R ASSY	AWX9025	AWX9025	AWX9025	AWX9025	AWX9025
	1..DSP ASSY	AWX8572	AWX8572	AWX8699	AWX8699	AWX8699
NSP	1..VIDEO ASSY	AWK7945	AWK7945	AWK7944	AWK7900	AWK7900
	2..COMPOSITE ASSY	AWX9089	AWX9089	AWX9089	AWX9090	AWX9090
	2..S-VIDEO ASSY	AWX9099	AWX9099	AWX9099	AWX9105	AWX9105
	2..COMPONENT ASSY	AWX9031	AWX9031	AWX9032	AWX9032	AWX9032
	2..BRIDGE 2 ASSY	AWX9050	AWX9050	AWX9050	AWX9050	AWX9050
NSP	1..COMPLEX ASSY	AWK7971	AWK7907	AWK7905	AWK7970	AWK7906
	2..PRIMARY ASSY	AWX9086	AWX9086	AWX9085	AWX9085	AWX9085
	2..TRANS 1 ASSY	AWX9038	AWX9038	AWX9038	AWX9038	AWX9038
	2..DISPLAY ASSY	AWX9104	AWX9104	AWX9042	AWX9043	AWX9043
	2..VOLUME ASSY	AWX9044	AWX9111	AWX9044	AWX9044	AWX9111
	2..MULTI JOG ASSY	AWX9046	AWX9113	AWX9046	AWX9046	AWX9113
	2..FRONT-IN ASSY	AWX9048	AWX9048	AWX9047	AWX9047	AWX9047
	2..HEADPHONE ASSY	AWX9049	AWX9049	AWX9049	AWX9049	AWX9049
NSP	1..SECONDARY ASSY	AWK7916	AWK7916	AWK7914	AWK7915	AWK7915
	2..PS/SP ASSY	AWX9108	AWX9108	AWX9054	AWX9054	AWX9054
	2..TRANS SIDE ASSY	AWX9056	AWX9056	AWX9056	AWX9056	AWX9056
	2..TRANS 2-1 ASSY	AWX9059	AWX9059	AWX9058	AWX9058	AWX9058
	2..DIODE 1 ASSY	AWX9060	AWX9060	AWX9060	AWX9060	AWX9060
	2..VH TR ASSY	AWX9061	AWX9061	AWX9061	AWX9061	AWX9061
	2..TRANS 2-2 ASSY	AWX9062	AWX9062	AWX9062	AWX9062	AWX9062
	2..LOCAL P-SUPPLY ASSY	AWX9068	AWX9068	AWX9065	AWX9065	AWX9065
	2..IR I/O ASSY	AWX9067	AWX9067	AWX9101	AWX9066	AWX9066
	2..VIDEO CONNECT ASSY	AWX9069	AWX9069	AWX9069	AWX9069	AWX9069
	2..DC/DC ASSY	AWX9098	AWX9098	AWX9098	AWX9098	AWX9098
NSP	1..POWER AMP ASSY	AWK7922	AWK7922	AWK7921	AWK7921	AWK7921
	2..POWER AMP-L ASSY	AWX9072	AWX9072	AWX9071	AWX9071	AWX9071
	2..POWER AMP-R ASSY	AWX9073	AWX9073	AWX9106	AWX9106	AWX9106
	2..POWER AMP IN ASSY	AWX9075	AWX9075	AWX9075	AWX9075	AWX9075
	2..POWER PROTECT ASSY	AWX9077	AWX9077	AWX9076	AWX9076	AWX9076
	2..BRIDGE 1-L ASSY	AWX9079	AWX9079	AWX9079	AWX9079	AWX9079
	2..POSI 1-L ASSY	AWX9081	AWX9081	AWX9080	AWX9080	AWX9080
	2..POSI 2-L ASSY	AWX9082	AWX9082	Not used	Not used	Not used
	2..POSI 1-R ASSY	AWX9084	AWX9084	AWX9083	AWX9083	AWX9083
	1..HDMI & DVC ASSY	AWQ7036	AWQ7036	AWQ7036	AWQ7036	AWQ7036
	1..USB ASSY	AWX8704	AWX8704	Not used	Not used	Not used

■ CONTRAST OF PCB ASSEMBLIES

A AUDIO IN ASSY

AWX9022, AWX9027 and AWX9088 are constructed the same except for the following :

Mark	Symbol and Description	AWX9022	AWX9027	AWX9088
	IC663	Not used	Not used	NJM78M12FA
	D671	Not used	Not used	RB501V-40
	C501, C502, C505-C510, C513-C518	CCSRCH101J50	Not used	Not used
	C521-C526, C541-C544, C549-C552	CCSRCH101J50	Not used	Not used
	C503, C504, C511, C512, C519, C520	CCSRCH221J50	Not used	Not used
	C527, C528, C531-C536, C539, C540	CCSRCH151J50	Not used	Not used
	C547, C548	CCSRCH151J50	Not used	Not used
	C678	Not used	Not used	CKSRYB103K50
	C679	Not used	Not used	CEAT100M50
	CN516 15P PLUG	XKP3067	Not used	Not used

C MAIN CONTROL ASSY

AWX9018, AWX9016 and AWX9017 are constructed the same except for the following :

Mark	Symbol and Description	AWX9018	AWX9016	AWX9017
	IC251	LC72725M	Not used	Not used
	Q103	Not used	Not used	DTA124EUA
	C251	CEAT100M50	Not used	Not used
	C253	CCSRCH561J50	Not used	Not used
	C254	CEAT101M10	Not used	Not used
	C255	CKSRYB102K50	Not used	Not used
	C256, C257	CCSRCH270J50	Not used	Not used
	C260	CKSRYB472K50	Not used	Not used
	R101	RS1/16S0R0J	RS1/16S0R0J	Not used
	R102, R383, R384	Not used	Not used	RS1/16S0R0J
	R103, R251	RS1/16S473J	Not used	Not used
	R104	RS1/16S183J	RS1/16S0R0J	RS1/16S0R0J
	R122	Not used	RS1/16S472J	RS1/16S472J
	R126, R127	Not used	RS1/16S101J	RS1/16S101J
	R223	Not used	Not used	RS1/16S103J
	R252-R254	RS1/16S102J	Not used	Not used
	R255	RS1/16S0R0J	Not used	Not used
	CN305 12P CONNECTOR	Not used	VKN1243	VKN1243
	X251 CRYSTAL RESONATOR (4.332 MHz)	ASS7004	Not used	Not used

H COMPOSITE ASSY

AWX9089 and AWX9090 are constructed the same except for the following :

Mark	Symbol and Description	AWX9089	AWX9090
	IC1002	Not used	CD74HC4051PW
	Q1151	Not used	IMX25
	D1006	Not used	DAN202U
	D1007	Not used	1SS355
	D1112	Not used	DAN217U
	C1003, C1004, C1164	Not used	CKSRYB103K50
	C1015	Not used	CEAT101M10
	C1023	Not used	CCSRCH181J50
	C1151-C1154	Not used	CEAT2R2M50
	C1155, C1156, C1161, C1162	Not used	CCSRCH101J50
	C1157, C1158	Not used	CCSRCH331J50
	C1159, C1163	Not used	CKSRYB104K50
	C1160	Not used	CEAT100M50
	R1005	Not used	RS1/16S750J
	R1151, R1152	Not used	RS1/16S104J

Mark	Symbol and Description	AWX9089	AWX9090
	R1153, R1154	Not used	RS1/16S202J
	R1155, R1156	Not used	RS1/16S103J
	R1157, R1158	Not used	RS1/16S101J
	R1159, R1160, R1164	Not used	RS1/16S471J
	R1163	Not used	RS1/16S473J
	JA1004 PIN JACK (2P)	Not used	AKB7176
	JA1005 PIN JACK (2P)	Not used	AKB7181
	JA1006 PIN JACK (1P)	AKB7175	Not used

I S-VIDEO ASSY

AWX9099 and AWX9105 are constructed the same except for the following :

Mark	Symbol and Description	AWX9099	AWX9105
	Q1351, Q1353	Not used	2SA1576A(RS)
	Q1352	Not used	RT1N241M
	D1351	Not used	UDZS5R1(B)
	L1351 CHIP SOLID INDUCTOR	Not used	ATL7002
	C1352	Not used	CKSRYB104K16
	C1353	Not used	CKSRYB103K50
	C1354	Not used	CKSRYB102K50
	C1355	Not used	CKSRYB472K50
	R1351, R1352	Not used	RS1/16S180J
	R1353, R1354	Not used	RS1/16S103J
	R1355, R1356	Not used	RS1/16S472J
	JA1351 JACK	Not used	RKN1004
	KN1351 SCREW PLATE	Not used	VNE1948

K COMPONENT ASSY

AWX9031 and AWX9032 are constructed the same except for the following :

Mark	Symbol and Description	AWX9031	AWX9032
	C1501, C1502, C1521, C1522, C1541, C1542	CCSRCH101J50	Not used
	C1561, C1562	CCSRCH101J50	Not used
	C1507, C1508, C1527, C1528, C1569-C1572	CCSRCH271J50	Not used

L DISPLAY ASSY

AWX9104, AWX9042 and AWX9043 are constructed the same except for the following :

Mark	Symbol and Description	AWX9104	AWX9042	AWX9043
	IC2401	Not used	Not used	CD4053BNS
	Q2402	Not used	Not used	UMB1N
	Q2403	Not used	Not used	DTC124EUA
	Q2409	Not used	RT1N431M	Not used
	D2401	Not used	Not used	1SS355
	D2402	Not used	Not used	DAN217U
	D2414	Not used	SLR-343BBT(HJKL)	Not used
	D2415	Not used	Not used	DAN202U
	C2402	Not used	Not used	CKSRYB153K50
	C2412	Not used	Not used	CKSRYB103K50
	R2407	Not used	Not used	RS1/16S223J
	R2408, R2410	Not used	Not used	RS1/16S103J
	R2409	Not used	Not used	RS1/16S392J
	R2414	RS1/16S0R0J	RS1/16S0R0J	Not used
	R2423	Not used	RS1/16S221J	Not used

M VOLUME ASSY

AWX9044 and AWX9111 are different in part number, but construction is the same.

N MULTI JOG ASSY

AWX9046 and AWX9113 are different in part number, but construction is the same.

P FRONT-IN ASSY

AWX9048 and AWX9047 are constructed the same except for the following :

Mark	Symbol and Description	AWX9048	AWX9047
	L2752, L2753 CHIP FERRITE BEAD	VTL1169	Not used
	C2673	CKSRYB104K16	CKSRYB104K25
	C2753, C2756	CKSRYB104K16	Not used
	C2755	CEAT101M16	Not used
	C2757	CCSRCH471J50	Not used
	R2751, R2752	RS1/16S0R0J	Not used
	CN2652 CONNECTOR	B4B-PH-K-S	Not used
	JA2751 USB CONNECTOR	XKP3086	Not used

Q PRIMARY ASSY

AWX9086 and AWX9085 are constructed the same except for the following :

Mark	Symbol and Description	AWX9086	AWX9085
⚠	RY2001	ASR7013	ASR7022
⚠	T2001 STANDBY TRANSFORMER	ATT7040	ATT7043
⚠	R2001 (2.2 M, 1/2 W)	Not used	RCN1080
	R2002	RD1/4MUF101J	RD1/4MUF220J
⚠	AC2001 AC SOCKET 1P	Not used	AKP1033

S TRANS 2-1 ASSY

AWX9059 and AWX9058 are constructed the same except for the following :

Mark	Symbol and Description	AWX9059	AWX9058
	D3253	UDZS8R2(B)	UDZS10(B)
	D3254	UDZS7R5(B)	UDZS9R1(B)
	D3255	UDZS9R1(B)	UDZS10(B)
	D3256	UDZS8R2(B)	UDZS9R1(B)
	D3263	UDZS13(B)	UDZS10(B)
	D3264	UDZS15(B)	UDZS12(B)

W PS/SP ASSY

AWX9108 and AWX9054 are constructed the same except for the following :

Mark	Symbol and Description	AWX9108	AWX9054
	C3101, C3102	ACH7255	ACH7258
	CN3001 SPEAKER TERMINAL 8P	AKE7119	AKE7118
	CN3002 SPEAKER TERMINAL 6P	AKE7108	AKE7107

Z LOCAL P-SUPPLY ASSY

AWX9068 and AWX9065 are constructed the same except for the following :

Mark	Symbol and Description	AWX9068	AWX9065
⚠	IC3502 (1.6A)	AEK7012	Not used
⚠	Q3501	UMD2N	Not used
⚠	Q3502	2SD1763A(DE)	Not used
	Q3503	DTC124EUA	Not used
⚠	D3509, D3510	1SR154-400	Not used

Mark	Symbol and Description	AWX9068	AWX9065
	D3511	UDZS27(B)	Not used
	C3510	CEANP102M16	Not used
	C3511	CEAT102M35	Not used
	C3512, C3514	CEAT100M50	Not used
	C3513	CKSRYB102K50	Not used
	C3515	CEANP470M25	Not used
	R3504	RS1/16S472J	Not used
	R3505	RS1/16S101J	Not used
	R3506	RS1/16S222J	Not used

AB IR I/O ASSY

AWX9067, AWX9101 and AWX9066 are constructed the same except for the following :

Mark	Symbol and Description	AWX9067	AWX9101	AWX9066
	D3702	Not used	Not used	1SS355
	L3701, L3703 INDUCTOR	Not used	Not used	CTF1473
	L3702 CHIP SOLID INDUCTOR	Not used	Not used	QTL1013
	L3704 INDUCTOR	Not used	Not used	CTF1385
	C3758	Not used	Not used	CKSRYB103K50
	R3701	Not used	Not used	RS1/16S0R0J
	R3702	Not used	Not used	RS1/16S102J
	R3703	RS1/16S0R0J	RS1/16S0R0J	Not used
	R3755	RS1/16S0R0J	Not used	Not used
	JA3701 CONNECTOR	Not used	Not used	CKS4124
	JA3702 JACK	Not used	Not used	RKN1004

AD POWER AMP-L ASSY

AWX9072 and AWX9071 are constructed the same except for the following :

Mark	Symbol and Description	AWX9072	AWX9071
	CN5005 CONNECTOR	B2B-PH-K-R	Not used

AE POSI 1-L ASSY

AWX9081 and AWX9080 are constructed the same except for the following :

Mark	Symbol and Description	AWX9081	AWX9080
	TH4501 POSISTOR	PTFM04BH222Q2N34B0	PTFM04BC222Q2N34B0

AG POWER AMP-R ASSY

AWX9073 and AWX9106 are constructed the same except for the following :

Mark	Symbol and Description	AWX9073	AWX9106
	5002 PCB BINDER	VEF1040	Not used

AH POSI 1-R ASSY

AWX9084 and AWX9083 are constructed the same except for the following :

Mark	Symbol and Description	AWX9084	AWX9083
	TH4503 POSISTOR	PTFM04BH222Q2N34B0	PTFM04BC222Q2N34B0

AJ POWER PROTECT ASSY

AWX9077 and AWX9076 are constructed the same except for the following :

Mark	Symbol and Description	AWX9077	AWX9076
	Q5703	RT1N241M	Not used
	Q5706	RT1P241M	Not used
	D5702	1SS355	Not used
	C5706	CKSRYB103K50	Not used
	R5704, R5709	Not used	RS1/16S0R0J
	R5705, R5708, R5746	RS1/16S0R0J	Not used
	R5706	RS1/16S822J	Not used
	R5718	RS1/16S104J	Not used
	CN5706 3 PIN CONNECTOR	S3B-EH	Not used

■ PCB PARTS LIST FOR VSX-1016V-K/HYXJ5 UNLESS OTHER WISE NOTED

Mark	No.	Description	Part No.
MAIN ASSY (AWK7894)			
MISCELLANEOUS			
J	663	JUMPER WIRE	D20PDD0605E

A AUDIO IN ASSY

MISCELLANEOUS

IC	501	(A,262,69) 8CH E-VOL	R2S15205FP
IC	701	(A,205,68) OP-AMP IC	BA4560RF
IC	702	(A,220,73) OP-AMP IC	BA4560RF
IC	703	(A,220,56) IC	TC4066BFT
IC	741	(A,177,68) OP-AMP IC	BA4560RF
IC	761	(A,191,68) OP-AMP IC	BA4560RF
IC	781	(A,163,68) OP-AMP IC	BA4560RF
IC	801	(A,264,170) OP-AMP IC	UPC4570G2
IC	821	(A,264,139) OP-AMP IC	UPC4570G2
IC	841	(A,264,155) OP-AMP IC	UPC4570G2
IC	861	(A,264,123) OP-AMP IC	UPC4570G2
Q	661	(A,136,78) TRANSISTOR	2SD1858X
Q	662	(A,136,90) TRANSISTOR	2SB1238X
Q	701	(A,224,50) TRANSISTOR	UMD2N
D	591	(B,231,52) DIODE	DAN217U
⚠D	661	(B,39,52) DIODE	1SR154-400
⚠D	662	(B,34,52) DIODE	1SR154-400
⚠D	663	(B,25,52) DIODE	1SR154-400
⚠D	664	(B,30,52) DIODE	1SR154-400
D	669	(B,127,75) DIODE	UDZS7R5(B)
D	670	(B,127,87) DIODE	UDZS7R5(B)
J	662	(A,85,59) 3P HOUSING WIRE ASSY	ADX7509
CN	501	(A,258,24) 19P PLUG	XKP3069
CN	506	(A,180,18) CONNECTOR	CKS3374
CN	509	(A,234,48) 23P PLUG	XKP3071
CN	510	(A,291,24) 13P PLUG	XKP3066
CN	511	(A,131,47) B TO B CONNECTOR	BTEM20S-1S
CN	513	(A,98,48) 23P PLUG	XKP3071
CN	514	(A,220,24) 15P PLUG	XKP3067
CN	516	(A,39,24) 15P PLUG	XKP3067
CN	520	(A,282,208) 17P SOCKET	XKP3079
CN	521	(A,317,60) PIN JACK (4P)	AKB7172
CN	522	(A,317,88) PIN JACK (4P)	AKB7172
CN	524	(A,317,158) PIN JACK (4P)	AKB7172
CN	525	(A,317,186) PIN JACK (4P)	AKB7172
CN	526	(A,317,214) PIN JACK (4P)	AKB7172
CN	661	(A,26,62) CONNECTOR POST	S10B-PH
	664	(A,46,67) 6P CABLE HOLDER	51048-0600
Y	661	AWG14 BOARD IN	ADX7511
	501	(A,150,71) PCB BINDER	VEF1040
	523	(A,317,123) PIN JACK (6P)	AKB7182

RESISTORS

R	501	(B,303,54)	RS1/16S331J
R	502	(B,302,43)	RS1/16S331J
R	503	(B,302,71)	RS1/16S222J
R	504	(B,302,64)	RS1/16S222J
R	505	(B,302,84)	RS1/16S331J
R	506	(B,302,77)	RS1/16S331J
R	507	(B,302,97)	RS1/16S331J
R	508	(B,302,90)	RS1/16S331J
R	509	(B,302,110)	RS1/16S331J
R	510	(B,302,103)	RS1/16S331J
R	511	(B,302,128)	RS1/16S222J
R	512	(B,302,118)	RS1/16S222J
R	513	(B,302,142)	RS1/16S331J
R	514	(B,302,135)	RS1/16S331J
R	515	(B,302,209)	RS1/16S331J
R	516	(B,302,202)	RS1/16S331J
R	517	(B,302,222)	RS1/16S331J
R	518	(B,302,216)	RS1/16S331J
R	519	(B,302,155)	RS1/16S222J
R	520	(B,302,148)	RS1/16S222J
R	521	(B,302,168)	RS1/16S331J
R	522	(B,302,161)	RS1/16S331J
R	523	(B,302,182)	RS1/16S331J
R	524	(B,302,176)	RS1/16S331J
R	525	(B,302,195)	RS1/16S331J
R	526	(B,302,189)	RS1/16S331J
R	527	(B,309,56)	RS1/16S474J
R	528	(B,309,51)	RS1/16S474J
R	529	(B,309,69)	RS1/16S474J
R	530	(B,309,64)	RS1/16S474J

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	R 531	(B,309,84)	RS1/16S474J		R 731	(B,225,66)	RS1/16S101J
	R 532	(B,309,79)	RS1/16S474J		R 732	(B,214,66)	RS1/16S101J
	R 533	(B,309,97)	RS1/16S474J		R 733	(A,226,48)	RS1/16S473J
A	R 534	(B,309,92)	RS1/16S474J		R 741	(A,175,61)	RS1/16S473J
	R 535	(B,309,110)	RS1/16S474J		R 742	(A,180,61)	RS1/16S473J
	R 536	(B,309,107)	RS1/16S474J		R 743	(B,176,60)	RS1/16S332J
	R 537	(B,309,128)	RS1/16S474J		R 744	(B,179,60)	RS1/16S332J
	R 538	(B,309,118)	RS1/16S474J		R 745	(B,174,60)	RS1/16S332J
	R 539	(B,309,140)	RS1/16S474J		R 746	(B,181,60)	RS1/16S682J
	R 540	(B,309,134)	RS1/16S474J		R 747	(B,174,64)	RS1/16S332J
	R 541	(B,309,210)	RS1/16S474J		R 748	(B,181,64)	RS1/16S393J
	R 542	(B,309,205)	RS1/16S474J		R 749	(B,176,64)	RS1/16S332J
	R 543	(B,309,223)	RS1/16S474J		R 750	(B,179,64)	RS1/16S122J
	R 544	(B,309,218)	RS1/16S474J		R 751	(B,176,68)	RS1/16S182J
B	R 545	(B,309,154)	RS1/16S474J		R 752	(B,179,68)	RS1/16S272J
	R 546	(B,309,149)	RS1/16S474J		R 753	(B,174,72)	RS1/16S0R0J
	R 547	(B,309,167)	RS1/16S474J		R 754	(B,181,72)	RS1/16S271J
	R 548	(B,309,162)	RS1/16S474J		R 757	(B,172,79)	RS1/16S101J
	R 549	(B,309,182)	RS1/16S474J		R 758	(B,183,79)	RS1/16S101J
	R 550	(B,309,177)	RS1/16S474J		R 761	(A,189,61)	RS1/16S473J
	R 551	(B,309,195)	RS1/16S474J		R 762	(A,194,61)	RS1/16S473J
	R 552	(B,309,190)	RS1/16S474J		R 763	(B,190,60)	RS1/16S332J
	R 561	(A,246,87)	RS1/16S472J		R 764	(B,193,60)	RS1/16S332J
	R 562	(A,244,75)	RS1/16S472J		R 765	(B,188,60)	RS1/16S332J
	R 563	(A,244,58)	RS1/16S102J		R 766	(B,195,60)	RS1/16S332J
C	R 564	(A,244,57)	RS1/16S102J		R 767	(B,188,64)	RS1/16S332J
	R 565	(B,268,42)	RS1/16S0R0J		R 768	(B,195,64)	RS1/16S332J
	R 566	(B,275,42)	RS1/16S0R0J		R 769	(B,190,64)	RS1/16S332J
	R 572	(B,234,53)	RS1/16S0R0J		R 770	(B,193,64)	RS1/16S332J
	R 602	(B,224,22)	RS1/16S0R0J		R 771	(B,190,68)	RS1/16S182J
	R 663	(B,133,76)	RS1/16S472J		R 772	(B,193,68)	RS1/16S182J
	R 664	(B,133,88)	RS1/16S472J		R 773	(B,188,72)	RS1/16S0R0J
	R 665	(B,133,72)	RS1/16S101J		R 774	(B,195,72)	RS1/16S0R0J
	R 666	(B,133,84)	RS1/16S101J		R 777	(B,186,79)	RS1/16S101J
	R 701	(A,203,61)	RS1/16S473J		R 778	(B,197,79)	RS1/16S101J
D	R 702	(A,208,61)	RS1/16S473J		R 781	(A,161,61)	RS1/16S473J
	R 703	(B,204,60)	RS1/16S392J		R 782	(A,166,61)	RS1/16S473J
	R 704	(B,207,60)	RS1/16S392J		R 783	(B,162,60)	RS1/16S332J
	R 705	(B,202,60)	RS1/16S392J		R 784	(B,165,60)	RS1/16S332J
	R 706	(B,209,60)	RS1/16S392J		R 785	(B,160,60)	RS1/16S332J
	R 707	(B,202,64)	RS1/16S392J		R 786	(B,167,60)	RS1/16S332J
	R 708	(B,209,64)	RS1/16S392J		R 787	(B,160,64)	RS1/16S332J
	R 709	(B,204,64)	RS1/16S392J		R 788	(B,167,64)	RS1/16S332J
	R 710	(B,207,64)	RS1/16S392J		R 789	(B,162,64)	RS1/16S332J
	R 711	(B,204,68)	RS1/16S332J		R 790	(B,165,64)	RS1/16S332J
	R 712	(B,207,68)	RS1/16S332J		R 791	(B,162,68)	RS1/16S182J
E	R 713	(B,202,72)	RS1/16S680J		R 792	(B,165,68)	RS1/16S182J
	R 714	(B,209,72)	RS1/16S680J		R 793	(B,160,72)	RS1/16S0R0J
	R 715	(B,204,72)	RS1/16S474J		R 794	(B,167,72)	RS1/16S0R0J
	R 716	(B,207,72)	RS1/16S474J		R 797	(B,158,79)	RS1/16S101J
	R 719	(B,223,80)	RS1/16S0R0J		R 798	(B,169,79)	RS1/16S101J
	R 720	(B,216,80)	RS1/16S0R0J		R 801	(B,262,165)	RS1/16S223J
	R 721	(B,223,77)	RS1/16S472J		R 802	(B,262,176)	RS1/16S223J
	R 722	(B,216,77)	RS1/16S472J		R 805	(A,266,165)	RS1/16S682J
	R 723	(A,226,70)	RS1/16S472J		R 806	(A,266,175)	RS1/16S682J
	R 724	(A,213,70)	RS1/16S472J		R 807	(A,269,168)	RS1/16S271J
F	R 725	(A,226,74)	RS1/16S122J		R 808	(A,269,173)	RS1/16S271J
	R 726	(A,213,74)	RS1/16S122J		R 811	(A,263,165)	RS1/16S153J
	R 727	(B,223,73)	RS1/16S392J		R 812	(A,263,175)	RS1/16S153J
	R 728	(B,216,73)	RS1/16S392J		R 815	(B,262,194)	RS1/16S104J

Mark No.	Description	Part No.
R 816	(B,262,186)	RS1/16S104J
R 821	(B,262,134)	RS1/16S223J
R 822	(B,262,144)	RS1/16S223J
R 825	(A,266,134)	RS1/16S682J
R 826	(A,266,144)	RS1/16S682J
R 827	(A,269,137)	RS1/16S271J
R 828	(A,269,142)	RS1/16S271J
R 831	(A,263,134)	RS1/16S153J
R 832	(A,263,144)	RS1/16S153J
R 835	(B,275,194)	RS1/16S104J
R 836	(B,275,186)	RS1/16S104J
R 841	(B,262,149)	RS1/16S223J
R 842	(B,262,160)	RS1/16S223J
R 845	(A,266,150)	RS1/16S682J
R 846	(A,266,160)	RS1/16S682J
R 847	(A,269,152)	RS1/16S271J
R 848	(A,269,157)	RS1/16S271J
R 851	(A,263,150)	RS1/16S153J
R 852	(A,263,160)	RS1/16S153J
R 855	(B,269,194)	RS1/16S104J
R 856	(B,269,186)	RS1/16S104J
R 861	(B,262,118)	RS1/16S223J
R 862	(B,262,129)	RS1/16S223J
R 865	(A,266,118)	RS1/16S682J
R 866	(A,266,128)	RS1/16S682J
R 867	(A,269,121)	RS1/16S271J
R 868	(A,269,126)	RS1/16S271J
R 871	(A,263,118)	RS1/16S153J
R 872	(A,263,128)	RS1/16S153J
R 875	(B,282,194)	RS1/16S104J
R 876	(B,282,186)	RS1/16S104J
R 883	(A,253,116)	RS1/16S0R0J

CAPACITORS

Mark No.	Description	Part No.
C 501	(B,307,56)	CCSRCH101J50
C 502	(B,307,51)	CCSRCH101J50
C 503	(B,307,69)	CCSRCH221J50
C 504	(B,307,64)	CCSRCH221J50
C 505	(B,307,84)	CCSRCH101J50
C 506	(B,307,79)	CCSRCH101J50
C 507	(B,307,97)	CCSRCH101J50
C 508	(B,307,92)	CCSRCH101J50
C 509	(B,307,110)	CCSRCH101J50
C 510	(B,307,107)	CCSRCH101J50
C 511	(B,307,128)	CCSRCH221J50
C 512	(B,307,118)	CCSRCH221J50
C 513	(B,307,140)	CCSRCH101J50
C 514	(B,307,134)	CCSRCH101J50
C 515	(B,307,210)	CCSRCH101J50
C 516	(B,307,205)	CCSRCH101J50
C 517	(B,307,223)	CCSRCH101J50
C 518	(B,307,218)	CCSRCH101J50
C 519	(B,307,154)	CCSRCH221J50
C 520	(B,307,149)	CCSRCH221J50
C 521	(B,307,167)	CCSRCH101J50
C 522	(B,307,162)	CCSRCH101J50
C 523	(B,307,182)	CCSRCH101J50
C 524	(B,307,177)	CCSRCH101J50
C 525	(B,307,195)	CCSRCH101J50
C 526	(B,307,190)	CCSRCH101J50
C 527	(B,297,49)	CCSRCH151J50
C 528	(B,298,44)	CCSRCH151J50
C 531	(B,297,83)	CCSRCH151J50
C 532	(B,298,79)	CCSRCH151J50
C 533	(B,297,96)	CCSRCH151J50
C 534	(B,298,92)	CCSRCH151J50
C 535	(B,297,109)	CCSRCH151J50
C 536	(B,298,105)	CCSRCH151J50
C 539	(B,297,141)	CCSRCH151J50
C 540	(B,298,137)	CCSRCH151J50
C 541	(B,297,209)	CCSRCH101J50
C 542	(B,298,203)	CCSRCH101J50
C 543	(B,300,222)	CCSRCH101J50
C 544	(B,300,216)	CCSRCH101J50
C 547	(B,297,167)	CCSRCH151J50
C 548	(B,298,163)	CCSRCH151J50
C 549	(B,297,182)	CCSRCH101J50
C 550	(B,298,177)	CCSRCH101J50
C 551	(B,297,194)	CCSRCH101J50
C 552	(B,297,190)	CCSRCH101J50
C 553	(A,300,51) ELECT. CAPACITOR	CEAT470M25
C 554	(A,300,42) ELECT. CAPACITOR	CEAT470M25
C 555	(A,300,73)	CEAT100M50
C 556	(A,300,64)	CEAT100M50
C 557	(A,300,86) ELECT. CAPACITOR	CEAT470M25
C 558	(A,300,77) ELECT. CAPACITOR	CEAT470M25
C 559	(A,300,99) ELECT. CAPACITOR	CEAT470M25
C 560	(A,300,90) ELECT. CAPACITOR	CEAT470M25
C 561	(A,300,112) ELECT. CAPACITOR	CEAT470M25
C 562	(A,300,103) ELECT. CAPACITOR	CEAT470M25
C 563	(A,300,131)	CEAT100M50
C 564	(A,300,120)	CEAT100M50
C 565	(A,300,144) ELECT. CAPACITOR	CEAT470M25
C 566	(A,300,135) ELECT. CAPACITOR	CEAT470M25
C 567	(A,300,210) ELECT. CAPACITOR	CEAT470M25
C 568	(A,300,201) ELECT. CAPACITOR	CEAT470M25
C 569	(A,293,210) ELECT. CAPACITOR	CEAT470M25
C 570	(A,293,201) ELECT. CAPACITOR	CEAT470M25
C 571	(A,300,157)	CEAT100M50
C 572	(A,300,148)	CEAT100M50
C 573	(A,300,170) ELECT. CAPACITOR	CEAT470M25
C 574	(A,300,161) ELECT. CAPACITOR	CEAT470M25
C 575	(A,300,184) ELECT. CAPACITOR	CEAT470M25
C 576	(A,300,175) ELECT. CAPACITOR	CEAT470M25
C 577	(A,300,197) ELECT. CAPACITOR	CEAT470M25
C 578	(A,300,188) ELECT. CAPACITOR	CEAT470M25
C 579	(A,270,87)	CEAT101M16
C 580	(A,268,95)	CEAT101M16
C 581	(A,264,87)	CEAT101M16
C 582	(A,262,95)	CEAT101M16
C 583	(A,258,87)	CEAT101M16
C 584	(A,256,95)	CEAT101M16
C 585	(A,252,87)	CEAT101M16
C 586	(A,250,95)	CEAT101M16
C 587	(A,247,84)	CKSRYB473K50
C 588	(A,246,84)	CKSRYB154K10
C 589	(A,244,84)	CKSRYB223K50
C 590	(A,247,76)	CKSRYB473K50
C 591	(A,247,74)	CKSRYB154K10

Mark	No.	Description	Part No.
	C 592	(A,244,73)	CKSRYB223K50
	C 593	(A,248,59)	CCSRCH101J50
	C 594	(A,247,59)	CCSRCH101J50
A	C 595	(A,247,79)	CKSRYB103K50
	C 596	(A,247,78)	CKSRYB103K50
	C 599	(A,269,35)	CEJQ100M25
	C 600	(A,274,35)	CEJQ100M25
	C 641	(B,309,114)	CKSRYB103K50
	C 642	(B,309,88)	CKSRYB103K50
	C 643	(B,309,214)	CKSRYB103K50
	C 644	(B,309,158)	CKSRYB103K50
	C 645	(B,309,186)	CKSRYB103K50
	C 661	(A,50,48) ELECT. CAPACITOR	CEAT222M25
	C 662	(A,64,48) ELECT. CAPACITOR	CEAT222M25
B	C 673	(A,130,76)	CEAT2R2M50
	C 674	(A,130,86)	CEAT2R2M50
	C 675	(A,143,76)	CEAT100M50
	C 676	(A,143,86)	CEAT100M50
	C 701	(A,202,53)	CEAT2R2M50
	C 702	(A,208,53)	CEAT2R2M50
	C 703	(A,203,62)	CCSRCH471J50
	C 704	(A,208,62)	CCSRCH471J50
	C 705	(A,203,64)	CCSRCH331J50
	C 706	(A,208,64)	CCSRCH331J50
	C 707	(B,202,68)	CCSRCH331J50
C	C 708	(B,209,68)	CCSRCH331J50
	C 709	(A,202,76)	CEAT100M50
	C 710	(A,209,76)	CEAT100M50
	C 713	(A,223,69)	CEAT100M50
	C 714	(A,216,69)	CEAT100M50
	C 717	(A,208,72)	CKSRYB103K50
	C 718	(A,203,72)	CKSRYB103K50
	C 719	(A,217,77)	CKSRYB104K50
	C 720	(A,222,77)	CKSRYB104K50
	C 721	(A,224,53)	CKSRYB103K50
D	C 722	(A,215,56)	CKSRYB103K50
	C 741	(A,174,53)	CEAT2R2M50
	C 742	(A,180,53)	CEAT2R2M50
	C 743	(A,175,62)	CCSRCH101J50
	C 744	(A,180,62)	CKSRYB223K50
	C 745	(A,175,64)	CCSRCH331J50
	C 746	(A,180,64)	CKSRYB103K50
	C 747	(B,174,68)	CCSRCH331J50
	C 748	(B,181,68)	CKSRYB562K50
	C 749	(A,174,76)	CEAT100M50
	C 750	(A,181,76)	CEAT100M50
E	C 751	(B,176,79)	CKSRYB472K50
	C 752	(B,179,79)	CKSRYB472K50
	C 753	(A,180,72)	CKSRYB103K50
	C 754	(A,175,72)	CKSRYB103K50
	C 761	(A,188,53)	CEAT2R2M50
	C 762	(A,194,53)	CEAT2R2M50
	C 763	(A,189,62)	CCSRCH101J50
	C 764	(A,194,62)	CCSRCH101J50
	C 765	(A,189,64)	CCSRCH331J50
	C 766	(A,194,64)	CCSRCH331J50
F	C 767	(B,188,68)	CCSRCH331J50
	C 768	(B,195,68)	CCSRCH331J50
	C 769	(A,188,76)	CEAT100M50
	C 770	(A,195,76)	CEAT100M50

Mark	No.	Description	Part No.
	C 771	(B,190,79)	CKSRYB472K50
	C 772	(B,193,79)	CKSRYB472K50
	C 773	(A,194,72)	CKSRYB103K50
	C 774	(A,189,72)	CKSRYB103K50
	C 781	(A,160,53)	CEAT2R2M50
	C 782	(A,166,53)	CEAT2R2M50
	C 783	(A,161,62)	CCSRCH101J50
	C 784	(A,166,62)	CCSRCH101J50
	C 785	(A,161,64)	CCSRCH331J50
	C 786	(A,166,64)	CCSRCH331J50
	C 787	(B,160,68)	CCSRCH331J50
	C 788	(B,167,68)	CCSRCH331J50
	C 789	(A,160,76)	CEAT100M50
	C 790	(A,167,76)	CEAT100M50
	C 791	(B,162,79)	CKSRYB472K50
	C 792	(B,165,79)	CKSRYB472K50
	C 793	(A,166,72)	CKSRYB103K50
	C 794	(A,161,72)	CKSRYB103K50
	C 801	(A,253,108)	CEAT4R7M50
	C 802	(A,253,101)	CEAT4R7M50
	C 805	(A,263,164)	CCSRCH101J50
	C 806	(A,263,176)	CCSRCH101J50
	C 807	(A,260,192) ELECT. CAPACITOR	CEAT470M25
	C 808	(A,260,185) ELECT. CAPACITOR	CEAT470M25
	C 809	(A,260,168)	CKSRYB103K50
	C 810	(A,260,173)	CKSRYB103K50
	C 821	(A,265,108)	CEAT4R7M50
	C 822	(A,265,101)	CEAT4R7M50
	C 825	(A,263,133)	CCSRCH101J50
	C 826	(A,263,145)	CCSRCH101J50
	C 827	(A,273,192) ELECT. CAPACITOR	CEAT470M25
	C 828	(A,273,185) ELECT. CAPACITOR	CEAT470M25
	C 829	(A,260,137)	CKSRYB103K50
	C 830	(A,260,142)	CKSRYB103K50
	C 841	(A,259,108)	CEAT4R7M50
	C 842	(A,259,101)	CEAT4R7M50
	C 845	(A,263,148)	CCSRCH101J50
	C 846	(A,263,161)	CCSRCH101J50
	C 847	(A,266,192) ELECT. CAPACITOR	CEAT470M25
	C 848	(A,266,185) ELECT. CAPACITOR	CEAT470M25
	C 849	(A,260,152)	CKSRYB103K50
	C 850	(A,260,157)	CKSRYB103K50
	C 861	(A,271,108)	CEAT4R7M50
	C 862	(A,271,101)	CEAT4R7M50
	C 865	(A,263,117)	CCSRCH101J50
	C 866	(A,263,129)	CCSRCH101J50
	C 867	(A,279,192) ELECT. CAPACITOR	CEAT470M25
	C 868	(A,279,185) ELECT. CAPACITOR	CEAT470M25
	C 869	(A,260,121)	CKSRYB103K50
	C 870	(A,260,126)	CKSRYB103K50

B 12V-REG ASSY

MISCELLANEOUS

	IC 661	(A,12,90) REGULATOR IC	NJM78M12FA
	IC 662	(A,39,90) REGULATOR IC	NJM79M12FA
	D 665	(B,28,90) CHIP DIODE	RB501V-40
	D 666	(B,56,88) CHIP DIODE	RB501V-40
	663	(A,46,77) 6P CABLE HOLDER	51048-0600

Mark No.	Description	Part No.
CAPACITORS		
C 667	(B,11,86)	CKSRYB103K50
C 668	(B,39,86)	CKSRYB103K50
C 669	(A,25,92)	CEAT221M25
C 670	(A,52,92)	CEAT221M25

C MAIN CONTROL ASSY

MISCELLANEOUS

IC 101	(A,160,173)	CPU	PEG244A
IC 102	(A,127,155)	EEP ROM	BR24L16FV-W
IC 105	(A,113,150)	LOGIC IC	CD4094BPW
IC 106	(A,113,160)	LOGIC IC	CD4094BPW
IC 107	(A,152,150)	RESET IC	BU4842F
IC 251	(A,141,199)	RDS DECORDER IC	LC72725M
Q 102	(B,175,204)	TRANSISTOR	DTC143TK
Q 104	(B,177,199)	CHIP DIGITAL TRANS.	DTA124EUA
Q 105	(B,180,199)	CHIP DIGITAL TRANS.	DTA124EUA
Q 106	(B,176,192)	CHIP DIGITAL TRANS.	DTA124EUA
Q 107	(B,182,205)	TRANSISTOR	DTA124TK
Q 108	(B,179,192)	CHIP DIGITAL TRANS.	DTA124EUA
Q 109	(B,181,169)	CHIP DIGITAL TRANS.	DTA124EUA
Q 110	(B,187,167)	TRANSISTOR	UMD2N
Q 114	(B,154,193)	CHIP TR (PNP X 2)	UMB1N
Q 115	(B,168,187)	CHIP TR (PNP X 2)	UMB1N
Q 116	(B,173,187)	CHIP TR (PNP X 2)	UMB1N
D 101	(B,208,170)	DIODE	1SS355
D 102	(B,205,168)	DIODE	DAN202U
D 103	(B,205,149)	DIODE	DAN202U
D 106	(A,181,160)	DIODE	1SS355
D 108	(A,183,176)	DIODE	DAP202U
D 109	(A,188,168)	DIODE	DAN217U
D 110	(A,185,180)	DIODE	DAP202U
D 111	(A,179,198)	DIODE	DAN202U
D 112	(A,179,190)	DIODE	DAN202U
D 116	(B,174,158)	DIODE	1SS355
D 117	(B,174,153)	DIODE	1SS355
D 118	(B,159,182)	DIODE	1SS355
D 119	(B,138,169)	DIODE	UDZS5R1(B)
D 291	(A,29,141)	DIODE	1SS355
L 101	(B,203,204)	CHIP SOLID INDUCTOR	ATL7002
L 102	(B,216,135)	CHIP SOLID INDUCTOR	ATL7002
L 103	(B,205,154)	CHIP SOLID INDUCTOR	ATL7002
L 281	(B,29,204)	CHIP SOLID INDUCTOR	QTL1013
L 282	(B,66,159)	CHIP SOLID INDUCTOR	QTL1013
L 291	(B,15,135)	CHIP SOLID INDUCTOR	QTL1013
L 292	(B,21,137)	CHIP SOLID INDUCTOR	QTL1013
L 293	(B,22,118)	CHIP SOLID INDUCTOR	QTL1013
L 294	(B,18,118)	CHIP SOLID INDUCTOR	QTL1013
L 295	(B,24,148)	CHIP SOLID INDUCTOR	QTL1013
JA281	(A,17,170)	OPT. LINK IN	AKS7001
JA282	(A,17,183)	OPT. LINK IN	AKS7001
JA283	(A,17,197)	OPT. LINK IN	AKS7001
JA284	(A,17,210)	OPT. LINK OUT	AKS7002
JA291	(A,9,131)	MINI JACK (4P) /W SW	XKN3015
JA292	(A,11,143)	JACK	RKN1004
KN281	(A,13,153)	SCREW PLATE	VNE1948
X 101	(A,159,157)	CERAMIC RESONATOR	XSS3004
X 251	(A,138,207)	CRYSTAL RESONATOR	ASS7004

Mark No.	Description	Part No.
CN101	(A,208,215) CONNECTOR	CKS3394
CN102	(A,223,129) 9P JUMPER CONNECTOR	52147-0910
CN103	(A,197,187) CONNECTOR	CKS3384
CN104	(A,60,177) 11P PLUG	XKP3065
CN105	(A,140,150) CONNECTOR	CKS3375
CN106	(A,94,212) 23P SOCKET	XKP3082
CN107	(A,31,177) 13P PLUG	XKP3066
CN108	(A,29,153) 13P PLUG	XKP3066
CN109	(A,55,153) 11P PLUG	XKP3065
CN110	(A,56,130) 11P PLUG	XKP3065
CN111	(A,28,130) 13P PLUG	XKP3066
CN112	(A,64,102) 23P SOCKET	XKP3082
CN113	(A,100,180) CONNECTOR	CKS3382
CN281	(A,33,209) 23P PLUG	XKP3071
CN301	(A,170,98) B TO B CONNECTOR	BTEM20P-1R
CN302	(A,199,102) 23P SOCKET	XKP3082
CN306	(A,110,212) 9P SOCKET	XKP3075
102	(A,219,163) PCB BINDER	VEF1040
101	(A,218,171) PCB BINDER	VEF1040

RESISTORS

R 101	(B,155,175)	RS1/16S0R0J
R 103	(B,153,175)	RS1/16S473J
R 104	(B,151,175)	RS1/16S183J
R 106	(A,172,152)	RS1/16S104J
R 107	(B,152,165)	RS1/16S104J
R 108	(B,154,165)	RS1/16S512J
R 109	(A,148,158)	RS1/16S101J
R 110	(A,150,158)	RS1/16S0R0J
R 111	(A,152,158)	RS1/16S101J
R 112	(B,147,165)	RS1/16S101J
R 113	(B,149,165)	RS1/16S101J
R 114	(A,156,157)	RS1/16S0R0J
R 115	(A,163,157)	RS1/16S104J
R 116	(A,167,158)	RS1/16S471J
R 117	(A,171,152)	RS1/16S104J
R 118	(A,169,158)	RS1/16S471J
R 119	(A,170,158)	RS1/16S471J
R 120	(A,172,158)	RS1/16S471J
R 123	(A,143,159)	RS1/16S101J
R 124	(A,143,165)	RS1/16S101J
R 125	(A,145,159)	RS1/16S101J
R 128	(A,176,176)	RS1/16S0R0J
R 129	(A,180,177)	RS1/16S105J
R 130	(A,182,179)	RS1/16S103J
R 131	(A,179,177)	RS1/16S105J
R 132	(A,176,182)	RS1/16S105J
R 133	(A,176,174)	RS1/16S104J
R 134	(A,176,178)	RS1/16S104J
R 135	(A,173,187)	RS1/16S0R0J
R 136	(A,171,187)	RS1/16S0R0J
R 137	(A,168,187)	RS1/16S0R0J
R 138	(A,166,187)	RS1/16S0R0J
R 142	(A,141,180)	RS1/16S0R0J
R 143	(A,142,178)	RS1/16S0R0J
R 144	(A,141,177)	RS1/16S0R0J

Mark	No.	Description	Part No.
	R 145	(A,141,175)	RS1/16S0R0J
	R 146	(A,145,169)	RS1/16S473J
	R 147	(A,152,153)	RS1/16S104J
A	R 150	(A,127,162)	RS1/16S471J
	R 151	(A,129,162)	RS1/16S471J
	R 152	(A,127,165)	RS1/16S103J
	R 153	(A,129,165)	RS1/16S472J
	R 155	(A,183,161)	RS1/16S182J
	R 156	(A,177,164)	RS1/16S101J
	R 157	(A,179,164)	RS1/16S101J
	R 162	(B,166,201)	RS1/16S470J
	R 170	(B,155,182)	RS1/16S105J
	R 171	(B,176,155)	RS1/16S0R0J
	R 172	(B,131,170)	RS1/16S223J
B	R 174	(A,218,202)	RS1/16S331J
	R 175	(A,220,202)	RS1/16S331J
	R 176	(A,218,196)	RS1/16S471J
	R 181	(B,183,109)	RS1/16S0R0J
	R 183	(B,185,109)	RS1/16S0R0J
	R 184	(B,186,113)	RS1/16S0R0J
	R 185	(B,188,109)	RS1/16S0R0J
	R 186	(B,189,113)	RS1/16S0R0J
	R 187	(B,190,109)	RS1/16S0R0J
	R 188	(B,191,113)	RS1/16S221J
	R 190	(B,194,113)	RS1/16S221J
C	R 191	(B,202,113)	RS1/16S0R0J
	R 192	(B,201,109)	RS1/16S221J
	R 193	(B,199,113)	RS1/16S0R0J
	R 194	(B,180,109)	RS1/16S0R0J
	R 195	(B,171,113)	RS1/16S0R0J
	R 196	(B,170,109)	RS1/16S0R0J
	R 197	(B,96,108)	RS1/16S0R0J
	R 198	(B,98,108)	RS1/16S0R0J
	R 199	(B,203,198) CHIP RESISTOR	RS1/16S2R7J
	R 200	(A,105,150)	RS1/16S473J
D	R 201	(A,123,147)	RS1/16S473J
	R 202	(A,123,149)	RS1/16S473J
	R 203	(B,199,148)	RS1/16S473J
	R 204	(A,123,152)	RS1/16S473J
	R 205	(A,103,157)	RS1/16S473J
	R 206	(A,103,158)	RS1/16S473J
	R 207	(A,103,160)	RS1/16S473J
	R 208	(A,103,161)	RS1/16S473J
	R 209	(A,121,159)	RS1/16S473J
	R 221	(A,174,197)	RS1/16S222J
	R 222	(A,174,198)	RS1/16S472J
E	R 251	(A,148,203)	RS1/16S473J
	R 252	(A,133,200)	RS1/16S102J
	R 253	(A,133,194)	RS1/16S102J
	R 254	(A,133,197)	RS1/16S102J
	R 255	(B,152,209)	RS1/16S0R0J
	R 256	(B,49,200)	RS1/16S471J
	R 257	(B,51,200)	RS1/16S471J
	R 258	(B,53,200)	RS1/16S471J
	R 259	(B,55,200)	RS1/16S471J
	R 281	(B,21,168)	RS1/16S101J
	R 282	(B,21,184)	RS1/16S101J
F	R 283	(B,21,198)	RS1/16S101J
	R 385	(B,97,102)	RS1/16S0R0J

Mark	No.	Description	Part No.
CAPACITORS			
	C 101	(B,207,158)	CKSRYB103K50
	C 103	(B,202,159)	CKSRYB103K50
	C 104	(A,166,147)	CEAT331M10
	C 105	(A,160,160)	CKSRYB103K50
	C 107	(A,157,160)	CKSRYB105K10
	C 110	(A,164,157)	CKSRYB102K50
	C 112	(A,124,156)	CKSRYB103K50
	C 113	(A,167,205) ELECT. CAPACITOR	CEAT102M6R3
	C 117	(B,172,154)	CKSRYB473K16
	C 118	(B,157,182)	CKSRYB473K16
	C 119	(A,135,168)	CEAT100M50
	C 120	(A,150,151)	CKSRYB105K10
	C 122	(A,113,155)	CKSRYB104K16
	C 123	(A,113,165)	CKSRYB104K16
	C 125	(A,205,157)	CEAT101M10
	C 251	(A,140,191)	CEAT100M50
	C 253	(B,148,194)	CCSRCH561J50
	C 254	(A,151,213)	CEAT101M10
	C 255	(A,148,200)	CKSRYB102K50
	C 256	(B,146,207)	CCSRCH270J50
	C 257	(B,135,207)	CCSRCH270J50
	C 260	(A,135,194)	CKSRYB472K50
	C 281	(B,21,174)	CKSRYB104K16
	C 282	(B,21,188)	CKSRYB104K16
	C 283	(B,21,202)	CKSRYB104K16
	C 284	(B,21,211)	CKSRYB104K16
	C 285	(A,29,212)	CEAT101M10
	C 286	(B,24,167)	CKSRYB103K50
	C 287	(B,26,167)	CCSRCH471J50
	C 294	(B,26,162)	CKSRYB104K16

D GUARD-C ASSY

GUARD-C ASSY has no service part.

E GUARD-F ASSY

MISCELLANEOUS

	921	(A,245,238) PCB BINDER	VEF1040

F GUARD-R ASSY

MISCELLANEOUS

	923	(A,38,240) PCB BINDER	VEF1040

G DSP ASSY (AWX8572)

MISCELLANEOUS

	IC 501	(B,118,52) IC	TC74HCU04AF
	IC 601	(A,107,50) DA I/F TRANCEIVER	AK4114VQ
	IC 701	(A,75,43) CODEC IC	AK4628AVQ
	IC 801	(A,42,53) DSP IC	DSPC56371AF180
	IC 802	(A,44,38) IC	TC7WU04FU
	IC 851	(A,55,39) FLASH ROM IC	PDC145A8
	IC 871	(B,63,53) IC	TC7WH125FU
⚠	IC 901	(B,120,30) IC	NJM2391DL1-33
⚠	IC 902	(B,94,36) REGULATOR IC	LM1117DT-ADJ
	IC 952	(B,19,48) OCTAL BUS BUFFER IC	TC74VHCT244AFTS1

Mark No.	Description	Part No.
Q 801	(B,39,43) TRANSISTOR	UN5212
D 701	(A,79,33) DIODE	DAP202K
D 702	(B,80,32) DIODE	DAN202K
D 901	(B,116,38) DIODE	UDZS5R6(B)
D 902	(B,102,33) DIODE	UDZS5R6(B)
L 501	(B,127,29) CHIP SOLID INDUCTOR	QTL1013
L 502	(B,130,40) CHIP SOLID INDUCTOR	QTL1013
L 503	(A,122,62) CHIP SOLID INDUCTOR	QTL1013
L 601	(B,103,62) CHIP SOLID INDUCTOR	QTL1013
L 602	(A,98,49) CHIP SOLID INDUCTOR	QTL1013
L 605	(A,117,43) CHIP SOLID INDUCTOR	QTL1013
L 701	(B,66,43) CHIP SOLID INDUCTOR	QTL1013
L 702	(A,94,38) CHIP SOLID INDUCTOR	QTL1013
L 801	(A,47,38) CHIP SOLID INDUCTOR	QTL1013
L 802	(A,50,42) CHIP SOLID INDUCTOR	ATL7002
L 803	(A,58,52) CHIP SOLID INDUCTOR	ATL7002
L 804	(B,35,48) CHIP SOLID INDUCTOR	QTL1013
L 851	(A,51,42) CHIP SOLID INDUCTOR	QTL1013
L 871	(B,68,56) CHIP SOLID INDUCTOR	QTL1013
L 901	(B,105,32) CHIP SOLID INDUCTOR	ATL7002
L 902	(B,100,33) CHIP SOLID INDUCTOR	ATL7002
L 952	(B,25,56) CHIP SOLID INDUCTOR	QTL1013
JA 501	(A,140,35) JACK	AKB7131
X 601	(A,106,39) CRYSTAL RESONATOR	ASS7046
X 801	(A,36,36) CRYSTAL RESONATOR	VSS1171
CN601	(A,100,63) 10P CONNECTOR	VKN1414
CN701	(A,81,28) 19P SOCKET	XKP3080
CN902	(A,114,28) 13P SOCKET	XKP3077
CN952	(A,43,28) 15P SOCKET	XKP3078

RESISTORS

R 501	(B,129,29)	RS1/16S750J
R 502	(B,127,42)	RS1/16S750J
R 503	(B,123,42)	RS1/16S473J
R 504	(A,117,62)	RS1/16S473J
R 505	(A,115,62)	RS1/16S0R0J
R 506	(B,123,38)	RS1/16S222J
R 507	(A,118,62)	RS1/16S222J
R 508	(B,121,42)	RS1/16S101J
R 509	(B,117,62)	RS1/16S101J
R 512	(B,121,62)	RS1/16S101J
R 513	(B,123,62)	RS1/16S101J
R 551	(B,63,60)	RS1/16S104J
R 552	(B,65,60)	RS1/16S104J
R 553	(B,67,60)	RS1/16S104J
R 554	(B,69,60)	RS1/16S104J
R 555	(B,71,60)	RS1/16S104J
R 556	(B,75,60)	RS1/16S104J
R 557	(B,77,60)	RS1/16S104J
R 558	(B,79,60)	RS1/16S104J
R 559	(B,81,62)	RS1/16S104J
R 560	(B,83,62)	RS1/16S104J
R 561	(B,85,62)	RS1/16S104J
R 572	(A,90,54)	RS1/16S0R0J
R 573	(B,90,54)	RS1/16S0R0J
R 574	(B,76,56)	RS1/16S0R0J
R 575	(B,74,56)	RS1/16S0R0J
R 577	(B,93,61)	RS1/16S104J
R 579	(A,96,58)	RS1/16S0R0J
R 601	(A,110,57)	RS1/16S0R0J
R 602	(A,109,57)	RS1/16S0R0J
R 603	(A,107,57)	RS1/16S0R0J
R 604	(B,111,63)	RS1/16S104J
R 605	(B,109,63)	RS1/16S104J
R 606	(B,107,63)	RS1/16S104J
R 607	(A,106,57)	RS1/16S0R0J
R 609	(A,99,57)	RS1/16S0R0J
R 610	(B,101,62)	RS1/16S0R0J
R 612	(A,96,47)	RS1/16S0R0J
R 613	(A,99,52)	RS1/16S101J
R 614	(A,97,58)	RS1/16S101J
R 615	(A,99,47)	RS1/16S470J
R 616	(A,99,46)	RS1/16S101J
R 617	(A,99,44)	RS1/16S101J
R 618	(A,99,43)	RS1/16S101J
R 620	(A,99,41)	RS1/16S470J
R 622	(A,111,42)	RS1/16S0R0J
R 623	(A,114,42)	RS1/16S0R0J
R 624	(A,114,43)	RS1/16S101J
R 625	(A,114,44)	RS1/16S101J
R 626	(A,114,46)	RS1/16S101J
R 627	(A,113,40)	RS1/16S103J
R 628	(A,115,51)	RS1/16S1802F
R 629	(A,115,53)	RS1/16S0R0J
R 630	(A,115,57)	RS1/16S0R0J
R 701	(B,76,49)	RS1/16S470J
R 702	(B,72,49)	RS1/16S101J
R 703	(B,62,40)	RS1/16S0R0J
R 704	(B,68,41)	RS1/16S4R7J
R 705	(A,58,32)	RS1/16S101J
R 706	(A,61,32)	RS1/16S101J
R 707	(A,63,32)	RS1/16S101J
R 708	(A,66,32)	RS1/16S101J
R 709	(A,68,32)	RS1/16S101J
R 710	(A,71,32)	RS1/16S101J
R 711	(A,73,32)	RS1/16S101J
R 712	(A,76,32)	RS1/16S101J
R 713	(A,84,44)	RS1/16S470J
R 714	(A,84,49)	RS1/16S101J
R 715	(A,85,50)	RS1/16S101J
R 716	(A,82,51)	RS1/16S101J
R 801	(A,54,63)	RS1/16S470J
R 802	(A,45,64)	RAB4C101J
R 803	(B,50,62)	RS1/16S103J
R 804	(B,48,62)	RS1/16S103J
R 805	(B,46,62)	RS1/16S103J
R 806	(B,44,62)	RS1/16S103J
R 807	(B,42,56)	RS1/16S473J
R 808	(B,35,56)	RS1/16S472J
R 809	(B,40,56)	RS1/16S472J
R 810	(A,31,52)	RS1/16S473J
R 811	(B,30,51)	RS1/16S472J
R 812	(B,32,51)	RS1/16S101J
R 813	(A,27,49)	RS1/16S103J
R 815	(A,38,40)	RS1/16S105J
R 816	(A,35,40)	RS1/16S471J

Mark	No.		Description	Part No.
	R	817	(A,44,42)	RS1/16S101J
	R	819	(B,38,49)	RS1/16S101J
	R	821	(B,37,43)	RS1/16S0R0J
A	R	822	(B,42,44)	RS1/16S103J
	R	823	(B,43,50)	RS1/16S473J
	R	827	(B,51,51)	RS1/16S470J
	R	828	(A,54,44)	RS1/16S470J
	R	829	(A,56,48)	RS1/16S470J
	R	830	(A,57,48)	RS1/16S470J
	R	832	(A,53,54)	RS1/16S470J
	R	833	(A,57,57)	RS1/16S470J
	R	834	(A,57,58)	RS1/16S470J
	R	835	(A,57,60)	RS1/16S470J
	R	836	(A,57,61)	RS1/16S470J
B	R	840	(A,23,49)	RS1/16S101J
	R	841	(A,63,46)	RS1/16S473J
	R	851	(A,53,45)	RS1/16S470J
	R	852	(B,53,45)	RS1/16S222J
	R	853	(A,56,34)	RS1/16S0R0J
	R	855	(B,53,41)	RS1/16S103J
	R	856	(A,57,45)	RS1/16S103J
	R	857	(B,55,44)	RS1/16S103J
	R	871	(B,58,48)	RS1/16S470J
	R	872	(B,60,48)	RS1/16S470J
	R	873	(B,60,56)	RS1/16S470J
C	R	874	(B,58,56)	RS1/16S470J
	R	904	(B,113,31)	RS1/16S104J
	R	905	(B,111,33)	RS1/16S104J
	R	906	(B,107,31)	RS1/16S104J
	R	908	(A,121,27)	RS1/16S0R0J
	R	913	(A,85,30)	RS1/16S0R0J
	R	915	(B,89,37)	RS1/16S102J
	R	951	(A,26,49)	RS1/16S101J
	R	952	(A,25,49)	RS1/16S101J
	R	953	(A,22,49)	RS1/16S101J
D	R	954	(B,22,39)	RS1/16S331J
	R	955	(B,20,39)	RS1/16S331J
	R	956	(B,18,39)	RS1/16S331J
	R	957	(B,16,39)	RS1/16S331J
	R	958	(A,17,44)	RS1/16S331J
	R	959	(A,18,44)	RS1/16S331J
	R	960	(A,19,45)	RS1/16S331J
	R	961	(A,21,45)	RS1/16S331J
	R	962	(A,20,31) RESISTOR ARRAY	RAB4C104J
	R	967	(A,29,32)	RS1/16S104J
	R	968	(A,31,32)	RS1/16S104J
E	R	969	(A,33,32)	RS1/16S104J
	R	970	(A,37,32) RESISTOR ARRAY	RAB4C104J
	R	974	(A,42,32)	RS1/16S0R0J
	R	975	(A,15,52)	RS1/16S101J
	R	976	(A,16,52)	RS1/16S101J
	R	983	(B,15,32)	RS1/16S0R0J

CAPACITORS

	C	503	(B,125,29)	CKSRYB103K50
	C	504	(B,125,42)	CKSRYB103K50
F	C	505	(B,125,38)	CCSRCH470J50
	C	506	(A,121,62)	CCSRCH470J50
	C	511	(B,125,52)	CCSRCH471J50
	C	512	(B,127,52)	CKSRYB105K6R3
	C	513	(A,121,56)	CEVW101M16
	C	605	(A,99,55)	CCSRCH471J50
	C	606	(A,100,55)	CKSRYB104K16
	C	607	(A,94,53)	CEVW470M6R3
	C	608	(A,99,49)	CCSRCH471J50
	C	609	(A,100,49)	CKSRYB104K16
	C	612	(A,103,42)	CCSRCH120J50
	C	613	(A,107,42)	CCSRCH120J50
	C	614	(B,111,41)	CKSRYB104K16
	C	617	(B,117,42)	CKSRYB102K50
	C	618	(A,121,45)	CEVW470M6R3
	C	619	(A,116,48)	CKSRYB104K16
	C	620	(A,114,48)	CCSRCH471J50
	C	621	(A,114,51)	CKSRYB474K10
	C	701	(A,65,47)	CKSRYB103K50
	C	702	(A,66,47)	CCSRCH471J50
	C	703	(A,62,38)	CEVW101M16
	C	704	(A,65,44)	CKSRYB104K16
	C	705	(A,66,44)	CCSRCH101J50
	C	706	(B,64,40)	CKSRYB104K16
	C	707	(B,58,33)	CCSRCH471J50
	C	708	(B,61,33)	CCSRCH471J50
	C	709	(B,63,33)	CCSRCH471J50
	C	710	(B,66,33)	CCSRCH471J50
	C	711	(B,68,33)	CCSRCH471J50
	C	712	(B,71,33)	CCSRCH471J50
	C	713	(B,73,33)	CCSRCH471J50
	C	714	(B,76,33)	CCSRCH471J50
	C	715	(A,88,42)	CEVW101M16
	C	716	(A,84,41)	CKSRYB104K16
	C	717	(A,83,41)	CCSRCH471J50
	C	718	(A,85,33)	CEVW470M6R3
	C	720	(A,83,38)	CKSRYB104K16
	C	801	(A,49,63)	CCSRCH471J50
	C	802	(A,49,64)	CKSRYB104K16
	C	803	(A,42,63)	CCSRCH471J50
	C	804	(A,42,64)	CKSRYB104K16
	C	805	(A,37,63)	CCSRCH471J50
	C	806	(A,37,64)	CKSRYB104K16
	C	807	(A,32,58)	CCSRCH471J50
	C	808	(A,31,58)	CKSRYB104K16
	C	809	(A,32,55)	CCSRCH471J50
	C	810	(A,31,55)	CKSRYB104K16
	C	814	(A,32,47)	CCSRCH471J50
	C	815	(A,31,47)	CKSRYB104K16
	C	816	(A,32,40)	CCSRCH8R0D50
	C	817	(A,41,40)	CCSRCH8R0D50
	C	818	(A,46,34)	CCSRCH471J50
	C	819	(A,46,33)	CKSRYB104K16
	C	820	(A,46,31)	CKSRYB103K50
	C	821	(A,35,43)	CCSRCH471J50
	C	822	(A,35,42)	CKSRYB104K16
	C	823	(A,37,43)	CCSRCH471J50
	C	824	(A,37,42)	CKSRYB104K16
	C	825	(B,38,52)	CKSRYB103K50
	C	826	(A,44,44)	CCSRCH471J50
	C	827	(A,41,44)	CKSRYB104K16
	C	828	(A,53,48)	CCSRCH471J50
	C	829	(A,54,48)	CKSRYB104K16

Mark	No.		Description	Part No.
C	830	(A,53,52)		CCSRCH471J50
C	831	(A,54,52)		CKSRYB104K16
C	832	(A,53,57)		CCSRCH471J50
C	833	(A,54,57)		CKSRYB104K16
C	834	(A,52,28)		CEVW101M16
C	835	(A,63,52)		CEVW101M16
C	851	(A,51,38)		CCSRCH471J50
C	852	(A,50,38)		CKSRYB104K16
C	871	(B,66,52)		CCSRCH471J50
C	872	(B,68,52)		CKSRYB104K16
C	907	(B,114,38)		CKSRYB104K16
C	908	(A,121,37)		CEVW101M16
C	909	(A,96,34)		CEVW101M16
C	916	(B,67,47)		CCSRCH471J50
C	917	(B,69,47)		CKSRYB103K50
C	918	(B,79,49)		CKSRYB104K16
C	919	(B,80,49)		CCSRCH471J50
C	954	(B,26,52)		CCSRCH471J50
C	955	(B,28,52)		CKSRYB104K16
C	956	(A,24,54)		CEVW100M16

G DSP ASSY (AWX8699)

MISCELLANEOUS

IC	401	(A,80,54)	XM/DT IC	F2602E-01
IC	402	(A,116,59)	LOAD SWITCHING	AAT4618IGV-0.5-1
IC	551	(A,82,42)	IC	TC74VHC157FTS1
IC	601	(A,107,36)	DA I/F TRANCEIVER	AK4114VQ
IC	701	(A,75,29)	CODEC IC	AK4628AVQ
IC	801	(A,37,39)	DSP IC	DSPC56371AF180
IC	802	(A,33,24)	IC	TC7WU04FU
IC	851	(A,48,17)	FLASH ROM IC	PDC145A8
IC	871	(B,63,43)	IC	TC7WH125FU
⚠IC	901	(B,120,16)	IC	NJM2391DL1-33
⚠IC	902	(B,94,22)	REGULATOR IC	LM1117DT-ADJ
IC	951	(A,58,56)	IC	TC74VHCT08AFTS1
IC	952	(B,19,34)	OCTAL BUS BUFFER IC	TC74VHCT244AFTS1
IC	953	(A,48,56)	IC	TC74VHC08FTS1
Q	801	(B,34,29)	TRANSISTOR	RT1N241M
D	401	(B,117,57)	DIODE	UDZS5R6(B)
D	402	(B,114,54)	DIODE	UDZS5R6(B)
D	701	(A,79,19)	DIODE	MA152WA
D	702	(B,80,18)	DIODE	MA152WK
D	901	(B,116,24)	DIODE	UDZS5R6(B)
D	902	(B,102,19)	DIODE	UDZS5R6(B)
L	401	(A,64,49)	CHIP SOLID INDUCTOR	QTL1013
L	402	(A,112,60)	CHIP SOLID INDUCTOR	ATL7002
L	551	(A,88,44)	CHIP SOLID INDUCTOR	QTL1013
L	601	(B,103,48)	CHIP SOLID INDUCTOR	QTL1013
L	602	(A,98,36)	CHIP SOLID INDUCTOR	QTL1013
L	605	(A,117,29)	CHIP SOLID INDUCTOR	QTL1013
L	701	(B,66,30)	CHIP SOLID INDUCTOR	QTL1013
L	702	(A,94,24)	CHIP SOLID INDUCTOR	QTL1013
L	801	(A,35,25)	CHIP SOLID INDUCTOR	QTL1013
L	802	(A,44,29)	CHIP SOLID INDUCTOR	ATL7002
L	803	(A,53,38)	CHIP SOLID INDUCTOR	ATL7002
L	804	(B,30,34)	CHIP SOLID INDUCTOR	QTL1013
L	851	(A,45,23)	CHIP SOLID INDUCTOR	QTL1013
L	871	(B,67,45)	CHIP SOLID INDUCTOR	QTL1013
L	901	(B,105,19)	CHIP SOLID INDUCTOR	ATL7002
L	902	(B,100,19)	CHIP SOLID INDUCTOR	ATL7002
L	951	(A,53,54)	CHIP SOLID INDUCTOR	QTL1013
L	952	(B,24,43)	CHIP SOLID INDUCTOR	QTL1013
L	953	(A,64,53)	CHIP SOLID INDUCTOR	QTL1013
JA	501	(A,140,22)	PIN JACK (2P)	AKB7173
X	401	(A,68,57)	CRYSTAL RESONATOR	ASS7065
X	601	(A,106,25)	CRYSTAL RESONATOR	ASS7046
X	801	(A,25,22)	CRYSTAL RESONATOR	VSS1171
CN	401	(A,141,41)	4P SOCKET	AKP7201
CN	601	(A,100,49)	10P CONNECTOR	VKN1414
CN	701	(A,81,14)	19P SOCKET	XKP3080
CN	901	(A,114,14)	13P SOCKET	XKP3077
CN	951	(A,43,14)	15P SOCKET	XKP3078
CN	952	(A,25,59)	12P CONNECTOR	VKN1416

RESISTORS

R	404	(B,110,58)		RS1/16S101J
R	405	(B,104,57)		RS1/16S102J
R	406	(B,110,54)		RS1/16S101J
R	407	(B,108,57)		RS1/16S102J
R	410	(A,72,58)		RS1/16S471J
R	411	(A,72,56)		RS1/16S105J
R	414	(B,83,49)		RS1/16S104J
R	415	(B,86,48)		RS1/16S104J
R	416	(B,89,48)		RS1/16S101J
R	417	(B,98,58)		RS1/16S104J
R	418	(A,89,50)		RAB4C101J
R	419	(B,100,58)		RS1/16S104J
R	420	(B,96,58)		RS1/16S104J
R	421	(A,89,58)		RS1/16S104J
R	423	(A,87,58)		RS1/16S101J
R	424	(B,90,58)		RS1/16S101J
R	425	(B,94,58)		RS1/16S101J
R	426	(B,69,48)		RS1/16S101J
R	427	(B,71,48)		RS1/16S101J
R	428	(B,73,48)		RS1/16S101J
R	429	(A,80,46)		RS1/16S101J
R	430	(A,107,58)		RS1/16S103J
R	431	(A,102,58)		RS1/16S0R0J
R	501	(B,129,16)		RS1/16S750J
R	502	(B,132,30)		RS1/16S750J
R	514	(B,127,16)		RS1/16S0R0J
R	515	(B,130,26)		RS1/16S0R0J
R	516	(B,123,28)		RS1/16S100J
R	517	(B,128,30)		RS1/16S100J
R	562	(A,88,39)		RS1/16S470J
R	563	(B,85,44)		RS1/16S101J
R	564	(A,88,41)		RS1/16S470J
R	565	(B,88,40)		RS1/16S101J
R	566	(A,88,42)		RS1/16S101J
R	567	(A,74,44)		RS1/16S101J
R	568	(A,75,43)		RS1/16S101J
R	569	(A,75,42)		RS1/16S470J
R	570	(A,75,41)		RS1/16S101J
R	571	(A,75,39)		RS1/16S470J
R	604	(B,111,49)		RS1/16S104J

Mark	No.		Description	Part No.
	R	605	(B,109,49)	RS1/16S104J
	R	606	(B,107,49)	RS1/16S104J
	R	609	(A,99,43)	RS1/16S0R0J
A	R	610	(B,101,48)	RS1/16S0R0J
	R	613	(A,99,38)	RS1/16S101J
	R	614	(A,97,44)	RS1/16S101J
	R	615	(A,99,33)	RS1/16S470J
	R	616	(A,99,32)	RS1/16S101J
	R	617	(A,99,30)	RS1/16S101J
	R	618	(A,99,29)	RS1/16S101J
	R	620	(A,99,28)	RS1/16S470J
	R	622	(A,111,28)	RS1/16S0R0J
	R	623	(A,114,28)	RS1/16S0R0J
	R	624	(A,114,29)	RS1/16S101J
B	R	625	(A,114,31)	RS1/16S101J
	R	626	(A,114,32)	RS1/16S101J
	R	627	(A,113,27)	RS1/16S103J
	R	628	(A,115,38)	RS1/16S1802F
	R	701	(B,76,35)	RS1/16S470J
	R	702	(B,72,35)	RS1/16S101J
	R	703	(B,62,26)	RS1/16S0R0J
	R	704	(B,68,27)	RS1/16S4R7J
	R	705	(A,58,18)	RS1/16S101J
	R	706	(A,61,18)	RS1/16S101J
	R	707	(A,63,18)	RS1/16S101J
C	R	708	(A,66,18)	RS1/16S101J
	R	709	(A,68,18)	RS1/16S101J
	R	710	(A,71,18)	RS1/16S101J
	R	711	(A,73,18)	RS1/16S101J
	R	712	(A,76,18)	RS1/16S101J
	R	713	(A,84,30)	RS1/16S470J
	R	714	(A,84,35)	RS1/16S101J
	R	715	(A,85,36)	RS1/16S101J
	R	716	(A,82,37)	RS1/16S101J
	R	801	(A,49,49)	RS1/16S470J
D	R	802	(A,40,50)	RAB4C101J
	R	803	(B,44,48)	RS1/16S103J
	R	804	(B,42,48)	RS1/16S103J
	R	805	(B,40,48)	RS1/16S103J
	R	806	(B,38,48)	RS1/16S103J
	R	807	(B,37,42)	RS1/16S473J
	R	810	(A,26,38)	RS1/16S473J
	R	811	(B,28,46)	RS1/16S472J
	R	812	(B,28,43)	RS1/16S101J
	R	813	(A,22,37)	RS1/16S103J
	R	815	(A,26,26)	RS1/16S105J
E	R	816	(A,24,26)	RS1/16S471J
	R	817	(A,35,28)	RS1/16S101J
	R	819	(B,26,29)	RS1/16S101J
	R	821	(B,31,29)	RS1/16S0R0J
	R	822	(B,38,30)	RS1/16S103J
	R	823	(B,37,36)	RS1/16S473J
	R	827	(B,47,38)	RS1/16S470J
	R	828	(B,42,24)	RS1/16S470J
	R	829	(B,45,32)	RS1/16S470J
	R	830	(B,47,32)	RS1/16S470J
F	R	832	(A,48,41)	RS1/16S470J
	R	833	(A,50,45)	RS1/16S470J
	R	834	(A,54,46)	RS1/16S470J
	R	835	(A,50,47)	RS1/16S470J

Mark	No.		Description	Part No.
	R	836	(A,54,48)	RS1/16S470J
	R	840	(A,17,37)	RS1/16S101J
	R	841	(A,65,38)	RS1/16S473J
	R	851	(A,45,26)	RS1/16S470J
	R	852	(B,44,24)	RS1/16S222J
	R	855	(B,44,20)	RS1/16S103J
	R	856	(A,52,19)	RS1/16S103J
	R	857	(B,46,24)	RS1/16S103J
	R	871	(B,57,36)	RS1/16S470J
	R	872	(B,59,36)	RS1/16S470J
	R	873	(B,59,44)	RS1/16S470J
	R	874	(B,57,44)	RS1/16S470J
	R	905	(B,111,19)	RS1/16S104J
	R	908	(A,121,13)	RS1/16S0R0J
	R	915	(B,89,26)	RS1/16S102J
	R	951	(A,24,32)	RS1/16S101J
	R	952	(A,23,32)	RS1/16S101J
	R	953	(A,20,37)	RS1/16S101J
	R	954	(B,19,16)	RS1/16S101J
	R	955	(B,17,16)	RS1/16S101J
	R	956	(A,15,31)	RS1/16S101J
	R	957	(A,17,31)	RS1/16S101J
	R	958	(A,18,31)	RS1/16S101J
	R	959	(A,19,31)	RS1/16S101J
	R	960	(A,21,31)	RS1/16S101J
	R	961	(A,21,34)	RS1/16S101J
	R	962	(A,27,18)	RS1/16S104J
	R	963	(A,29,52)	RS1/16S104J
	R	964	(A,26,52) RESISTOR ARRAY	RAB4C104J
	R	965	(B,34,56)	RS1/16S104J
	R	966	(A,53,61)	RS1/16S331J
	R	967	(A,28,18)	RS1/16S104J
	R	968	(A,30,18)	RS1/16S104J
	R	969	(A,31,18)	RS1/16S104J
	R	970	(A,34,18) RESISTOR ARRAY	RAB4C104J
	R	971	(A,59,61)	RS1/16S331J
	R	972	(A,56,61)	RS1/16S331J
	R	973	(A,53,59)	RS1/16S331J
	R	977	(B,46,57)	RS1/16S101J
	R	978	(B,50,57)	RS1/16S101J
	R	979	(B,46,53)	RS1/16S101J
	R	980	(B,53,57)	RS1/16S101J

CAPACITORS

	C	401	(A,69,49) CEVW470M6R3
	C	402	(A,81,60) CKSRYB104K16
	C	403	(A,81,61) CCSRCH471J50
	C	404	(B,106,57) CKSRYB104K16
	C	405	(B,112,58) CKSRYB104K16
	C	406	(B,112,54) CKSRYB104K16
	C	407	(A,121,54) CEVW101M16
	C	408	(A,120,58) CKSRYB104K16
	C	409	(A,71,58) CCSRCH100D50
	C	410	(A,71,56) CCSRCH100D50
	C	413	(A,115,56) CKSQYB105K16
	C	503	(B,125,16) CKSRYB103K50
	C	504	(B,130,30) CKSRYB103K50
	C	551	(A,85,47) CKSRYB104K16
	C	552	(A,85,45) CCSRCH471J50

Mark No.	Description	Part No.
C 605	(A,99,41)	CCSRCH471J50
C 606	(A,100,41)	CKSRYB104K16
C 607	(A,94,39)	CEVW470M6R3
C 608	(A,99,36)	CCSRCH471J50
C 609	(A,100,36)	CKSRYB104K16
C 612	(A,103,28)	CCSRCH120J50
C 613	(A,107,28)	CCSRCH120J50
C 614	(B,111,28)	CKSRYB104K16
C 617	(B,113,28)	CKSRYB102K50
C 618	(A,121,31)	CEVW470M6R3
C 619	(A,116,35)	CKSRYB104K16
C 620	(A,114,35)	CCSRCH471J50
C 621	(A,114,38)	CKSRYB474K10
C 701	(A,65,32)	CKSRYB103K50
C 702	(A,66,32)	CCSRCH471J50
C 703	(A,62,23)	CEVW101M16
C 704	(A,65,29)	CKSRYB104K16
C 705	(A,66,29)	CCSRCH101J50
C 706	(B,64,26)	CKSRYB104K16
C 707	(B,58,19)	CCSRCH471J50
C 708	(B,61,19)	CCSRCH471J50
C 709	(B,63,19)	CCSRCH471J50
C 710	(B,66,19)	CCSRCH471J50
C 711	(B,68,19)	CCSRCH471J50
C 712	(B,71,19)	CCSRCH471J50
C 713	(B,73,19)	CCSRCH471J50
C 714	(B,76,19)	CCSRCH471J50
C 715	(A,88,29)	CEVW101M16
C 716	(A,84,27)	CKSRYB104K16
C 717	(A,83,27)	CCSRCH471J50
C 718	(A,85,20)	CEVW470M6R3
C 720	(A,83,24)	CKSRYB104K16
C 763	(B,52,30)	CCSRCH471J50
C 764	(B,54,30)	CKSRYB104K16
C 801	(A,44,49)	CCSRCH471J50
C 802	(A,44,50)	CKSRYB104K16
C 803	(A,37,49)	CCSRCH471J50
C 804	(A,37,50)	CKSRYB104K16
C 805	(A,32,49)	CCSRCH471J50
C 806	(A,32,50)	CKSRYB104K16
C 807	(A,27,44)	CCSRCH471J50
C 808	(A,26,44)	CKSRYB104K16
C 809	(A,27,41)	CCSRCH471J50
C 810	(A,26,41)	CKSRYB104K16
C 814	(A,27,33)	CCSRCH471J50
C 815	(A,26,33)	CKSRYB104K16
C 816	(A,21,26)	CCSRCH8R0D50
C 817	(A,29,26)	CCSRCH8R0D50
C 818	(A,35,22)	CCSRCH471J50
C 819	(A,37,22)	CKSRYB104K16
C 821	(A,30,30)	CCSRCH471J50
C 822	(A,30,28)	CKSRYB104K16
C 823	(A,32,30)	CCSRCH471J50
C 824	(A,32,28)	CKSRYB104K16
C 825	(B,33,39)	CKSRYB103K50
C 826	(A,38,30)	CCSRCH471J50
C 827	(A,38,29)	CKSRYB104K16
C 828	(A,48,35)	CCSRCH471J50
C 829	(A,49,35)	CKSRYB104K16
C 830	(A,48,38)	CCSRCH471J50
C 831	(A,49,38)	CKSRYB104K16
C 832	(A,48,43)	CCSRCH471J50
C 833	(A,49,43)	CKSRYB104K16
C 834	(A,41,23)	CEVW101M16
C 835	(A,55,42) CHIP ELECT.CAPACITOR	CEVW101M4
C 851	(A,45,18)	CCSRCH471J50
C 852	(A,43,18)	CKSRYB104K16
C 871	(B,66,41)	CCSRCH471J50
C 872	(B,68,41)	CKSRYB104K16
C 907	(B,114,24)	CKSRYB104K16
C 908	(A,121,23)	CEVW101M16
C 909	(A,96,20) CHIP ELECT.CAPACITOR	CEVW101M4
C 916	(B,67,34)	CCSRCH471J50
C 917	(B,69,34)	CKSRYB103K50
C 918	(B,79,36)	CKSRYB104K16
C 919	(B,80,36)	CCSRCH471J50
C 951	(A,52,56)	CCSRCH471J50
C 952	(A,54,56)	CKSRYB105K6R3
C 954	(B,24,34)	CCSRCH471J50
C 955	(B,26,34)	CKSQYB105K16
C 956	(A,64,56)	CKSQYB105K16
C 957	(A,62,56)	CCSRCH471J50

H COMPOSITE ASSY

MISCELLANEOUS

IC 1001	(A,74,199) IC	CD74HC4051PW
IC 1003	(A,92,208) IC	CD74HC4053PW
IC 1004	(A,112,209) VIDEO AMP IC	LA7109
IC 1005	(B,56,197) PORT EXPANDER	BU4094BCF
IC 1006	(A,36,184) CHARACTER GENERATOR	PDC131A
IC 1151	(A,40,209) 2CH E-VOL	M61545FP
Q 1002	(B,99,204) TRANSISTOR	2SC4081
Q 1003	(B,27,194) TRANSISTOR	2SC4081
Q 1004	(B,179,188) TRANSISTOR	2SC4081
D 1001	(B,88,192) DIODE	DAN202U
D 1002	(B,84,192) DIODE	DAN202U
D 1003	(B,132,179) DIODE	1SS355
D 1004	(B,123,176) DIODE	1SS355
D 1005	(B,57,180) DIODE	DAP202U
L 1002	(B,180,192) CHIP COIL	LCTAW120J2520
L 1003	(A,33,200) AXIAL INDUCTOR	LAU330J
JA 1006	(A,57,233) PIN JACK (1P)	AKB7175
X 1001	(A,44,196) CRYSTAL RESONATOR	ASS1056
CN1001	(A,184,173) 11P SOCKET	XKP3076
CN1002	(A,77,178) 21P SOCKET	XKP3081
CN1003	(A,184,198) 13P SOCKET	XKP3077
1003	(A,78,233) PIN JACK (2P)	AKB7176
1001	(A,134,233) PIN JACK (2P)	AKB7176
1002	(A,106,233) PIN JACK (2P)	AKB7176

RESISTORS

R 1001	(B,142,224)	RS1/16S750J
R 1002	(B,125,221)	RS1/16S750J
R 1003	(B,97,220)	RS1/16S750J
R 1004	(B,69,220)	RS1/16S750J
R 1007	(B,81,220)	RS1/16S750J

Mark No.	Description	Part No.
R 1009	(B,108,220)	RS1/16S750J
R 1011	(B,54,219)	RS1/16S750J
R 1014	(B,99,198)	RS1/16S102J
R 1017	(B,105,201)	RS1/16S103J
R 1018	(B,114,201)	RS1/16S103J
R 1019	(B,122,201)	RS1/16S103J
R 1020	(B,131,201)	RS1/16S103J
R 1021	(A,108,203)	RS1/16S103J
R 1022	(A,117,203)	RS1/16S103J
R 1023	(B,133,204)	RS1/16S473J
R 1024	(B,135,205)	RS1/16S473J
R 1025	(B,66,204)	RS1/16S473J
R 1026	(B,63,204)	RS1/16S473J
R 1030	(B,85,196)	RS1/16S473J
R 1031	(B,71,193)	RS1/16S473J
R 1032	(B,69,193)	RS1/16S473J
R 1033	(B,54,189)	RS1/16S473J
R 1034	(A,42,177)	RS1/16S102J
R 1035	(B,28,187)	RS1/16S512J
R 1036	(B,30,187)	RS1/16S392J
R 1037	(B,41,189)	RS1/16S102J
R 1039	(A,25,193)	RS1/16S331J
R 1040	(A,25,196)	RS1/16S331J
R 1041	(A,27,196)	RS1/16S331J
R 1043	(B,175,192)	RS1/16S561J
R 1046	(B,179,190)	RS1/16S102J
R 1049	(B,94,203)	RS1/16S103J
R 1051	(B,88,200)	RS1/16S0R0J
R 1053	(B,73,216)	RS1/16S0R0J
R 1054	(B,90,209)	RS1/16S473J

CAPACITORS

C 1001	(A,75,202)	CKSRYB103K50
C 1002	(A,73,204)	CKSRYB103K50
C 1005	(A,91,212)	CKSRYB104K50
C 1006	(A,94,212)	CKSRYB104K50
C 1008	(B,65,202)	CKSRYB104K50
C 1011	(B,96,205)	CKSRYB103K50
C 1012	(B,101,198)	CKSRYB103K50
C 1014	(A,88,197)	CEAT101M10
C 1016	(A,116,200)	CEAT101M10
C 1017	(A,125,200)	CEAT101M10
C 1018	(A,134,200)	CEAT101M10
C 1019	(B,116,211)	CKSRYB104K50
C 1020	(A,120,208)	CKSRYB104K50
C 1021	(A,123,214)	CEAT101M10
C 1022	(A,129,214)	CEAT101M10
C 1024	(B,84,225)	CCSRCH181J50
C 1025	(B,113,224)	CCSRCH181J50
C 1026	(B,56,224)	CCSRCH181J50
C 1027	(A,45,180)	CEAT101M10
C 1028	(A,45,187)	CEAT101M10
C 1029	(A,45,177)	CKSRYB473K25
C 1030	(A,27,185)	CKSRYB473K25
C 1031	(A,39,177)	CCSRCH101J50
C 1032	(A,35,177)	CKSRYB122K50
C 1033	(A,31,177)	CKSRYB122K50
C 1035	(B,34,187)	CKSRYB103K50
C 1036	(B,47,191)	CCSRCH150J50
C 1037	(B,45,191)	CCSRCH180J50
C 1038	(B,36,190)	CCSRCH240J50
C 1039	(B,33,194)	CCSRCH240J50
C 1040	(A,31,193)	CCSRCH101J50
C 1041	(A,28,193)	CCSRCH101J50
C 1042	(A,27,193)	CCSRCH101J50
C 1045	(B,184,192)	CCSRCH330J50
C 1046	(B,178,193)	CCSRCH120J50
C 1047	(B,180,194)	CCSRCJ3R0C50
C 1093	(B,111,224)	CKSRYB103K50
C 1095	(B,82,225)	CKSRYB103K50
C 1096	(B,79,225)	CKSRYB103K50
C 1097	(B,54,224)	CKSRYB103K50
C 1098	(B,43,224)	CKSRYB103K50

I S-VIDEO ASSY

MISCELLANEOUS

IC 1201	(A,115,134) IC	CD74HC4051PW
IC 1202	(A,103,134) IC	CD74HC4051PW
IC 1203	(A,111,119) IC	CD74HC4053PW
IC 1204	(A,130,136) IC	LA7213
IC 1205	(A,66,138) VIDEO AMP IC	LA7109
Q 1201	(B,147,133) TRANSISTOR	RT1N241M
Q 1203	(B,135,115) TRANSISTOR	2SC4081
Q 1204	(B,135,106) TRANSISTOR	2SC4081
Q 1205	(A,148,117) TRANSISTOR	2SC4081
Q 1206	(B,155,104) TRANSISTOR	2SC4081
D 1201	(B,141,129) DIODE	1SS355
D 1202	(B,144,134) DIODE	1SS355
D 1203	(B,79,133) DIODE	DAN202K
D 1204	(A,83,129) DIODE	DAN202K
D 1251	(B,93,114) DIODE	1SS355
D 1252	(B,77,115) DIODE	1SS355
L 1201	(A,155,109) CHIP COIL	LCTAW120J2520
L 1202	(B,162,108) CHIP COIL	LCTAW120J2520
CN1201	(A,175,128) 13P SOCKET	XKP3077
CN1202	(A,175,104) 11P SOCKET	XKP3076
CN1203	(A,68,108) 15P SOCKET	XKP3078
CN1204	SOCKET	XKB3052
CN1205	(A,97,163) SOCKET	XKB3051
CN1206	(A,125,163) SOCKET	XKB3051

RESISTORS

R 1201	(B,131,152)	RS1/16S750J
R 1202	(B,133,152)	RS1/16S750J
R 1203	(B,117,152)	RS1/16S750J
R 1204	(B,119,152)	RS1/16S750J
R 1205	(B,89,152)	RS1/16S750J
R 1206	(B,91,152)	RS1/16S750J
R 1207	(B,61,151)	RS1/16S750J
R 1208	(B,63,151)	RS1/16S750J
R 1209	(B,47,148)	RS1/16S750J
R 1210	(B,49,148)	RS1/16S750J

Mark	No.	Description	Part No.
R	1211(B,103,149)		RS1/16S750J
R	1212(B,105,149)		RS1/16S750J
R	1213(B,75,149)		RS1/16S750J
R	1214(B,77,149)		RS1/16S750J
R	1215(B,123,134)		RS1/16S331J
R	1216(B,125,134)		RS1/16S224J
R	1217(B,141,134)		RS1/16S472J
R	1218(B,144,129)		RS1/16S223J
R	1223(B,137,115)		RS1/16S102J
R	1224(B,138,106)		RS1/16S102J
R	1225(A,59,132)		RS1/16S103J
R	1226(A,63,132)		RS1/16S103J
R	1227(A,65,132)		RS1/16S103J
R	1228(A,87,131)		RS1/16S103J
R	1229(A,68,132)		RS1/16S103J
R	1230(A,87,133)		RS1/16S103J
R	1231(B,80,137)		RS1/16S473J
R	1232(A,72,130)		RS1/16S473J
R	1235(A,155,111)		RS1/16S561J
R	1236(B,167,108)		RS1/16S561J
R	1237(B,130,115)		RS1/16S103J
R	1238(B,130,106)		RS1/16S103J
R	1243(A,145,119)		RS1/16S102J
R	1244(B,157,102)		RS1/16S102J

CAPACITORS

C	1201(B,133,148)		CKSRYB104K16
C	1202(B,119,148)		CKSRYB104K16
C	1203(B,91,148)		CKSRYB104K16
C	1204(B,63,148)		CKSRYB104K16
C	1205(B,49,151)		CCSRCH181J50
C	1206(B,47,151)		CCSRCH181J50
C	1207(B,105,152)		CCSRCH181J50
C	1208(B,103,152)		CCSRCH181J50
C	1209(B,77,152)		CCSRCH181J50
C	1210(B,75,152)		CCSRCH181J50
C	1211(A,111,134)		CKSRYB104K16
C	1212(A,119,132)		CKSRYB104K16
C	1213(A,99,134)		CKSRYB104K16
C	1214(A,107,131)		CKSRYB104K16
C	1215(A,115,115)		CKSRYB104K16
C	1216(A,108,121)		CKSRYB104K16
C	1217(A,132,141)	ELECT. CAPACITOR	CEAT3R3M50
C	1218(A,138,135)		CEAT101M10
C	1219(A,138,128)		CEAT101M10
C	1221(A,125,115)		CEAT101M10
C	1222(A,125,106)		CEAT101M10
C	1223(A,145,115)		CEAT101M10
C	1224(A,145,106)		CEAT101M10
C	1225(B,132,110)		CKSRYB103K50
C	1226(B,140,110)		CKSRYB103K50
C	1227(A,47,118)		CEAT101M10
C	1228(B,57,129)		CKSRYB104K16
C	1229(A,55,118)		CEAT101M10
C	1230(A,87,130)		CKSRYB104K16
C	1231(A,62,118)		CEAT101M10

Mark	No.	Description	Part No.
C	1232(A,87,135)		CKSRYB104K16
C	1233(B,59,142)		CKSRYB104K16
C	1234(B,59,134)		CKSRYB104K16
C	1235(A,53,143)		CEAT101M16
C	1236(A,53,136)		CEAT101M16
C	1243(A,155,113)		CCSRCH120J50
C	1244(B,167,109)		CCSRCH120J50
C	1245(A,152,112)		CCSRCH330J50
C	1246(B,158,108)		CCSRCH330J50
C	1249(A,155,107)		CCSRCJ3R0C50
C	1250(B,162,111)		CCSRCJ3R0C50
C	1292(B,73,158)		CKSRYB103K50
C	1293(B,93,158)		CKSRYB103K50
C	1294(B,129,158)		CKSRYB103K50

J BRIDGE 2 ASSY

MISCELLANEOUS

CN2901(A,21,29)	17P PLUG	XKP3068
CN2902(A,100,29)	17P PLUG	XKP3068

K COMPONENT ASSY

MISCELLANEOUS

IC 1401(A,113,70)	MULTIPLEXER (4CH*2)	TC74LVX4052FT
IC 1402(A,124,72)	MULTIPLEXER (4CH*2)	TC74LVX4052FT
IC 1403(A,139,69)	MULTIPLEXER (2CH*3)	TC74LVX4053FT
IC 1404(B,93,70)	VIDEO IC	NJM2581M
IC 1405(A,129,50)	LOGIC IC	CD4094BPW
Q 1401(B,87,57)	TRANSISTOR	2SC4081
Q 1402(B,71,57)	TRANSISTOR	2SA1576A
Q 1403(B,163,64)	TRANSISTOR	2SA1576A
Q 1405(B,163,69)	TRANSISTOR	2SA1576A
Q 1407(B,163,74)	TRANSISTOR	2SA1576A
Q 1415(B,156,59)	TRANSISTOR	2SC4081
Q 1416(B,162,50)	TRANSISTOR	2SC4081
Q 1417(B,167,42)	TRANSISTOR	2SC4081
Q 1501(A,62,65)	TRANSISTOR	IMX25
Q 1502(A,68,65)	TRANSISTOR	IMX25
Q 1521(A,49,65)	TRANSISTOR	IMX25
Q 1522(A,55,65)	TRANSISTOR	IMX25
Q 1541(A,36,65)	TRANSISTOR	IMX25
Q 1542(A,42,65)	TRANSISTOR	IMX25
Q 1561(A,22,65)	TRANSISTOR	IMX25
Q 1562(A,29,65)	TRANSISTOR	IMX25
D 1401(B,85,43)	DIODE	1SS355
D 1402(B,83,43)	DIODE	1SS355
L 1401(B,166,58)	CHIP COIL	LCTAW120J2520
L 1402(B,169,53)	CHIP COIL	LCTAW120J2520
L 1403(B,175,49)	CHIP COIL	LCTAW120J2520
JA 1401(A,141,94)	6P RCA PIN JACK	XKB3053
JA 1402(A,99,94)	6P RCA PIN JACK	XKB3053
CN1401(A,175,56)	13P SOCKET	XKP3077
CN1402(A,175,30)	11P SOCKET	XKP3076
CN1403(A,68,39)	13P SOCKET	XKP3077
CN1405(A,19,59)	17P SOCKET	XKP3079
CN1406(A,53,41)	CONNECTOR	CKS3384
CN1501(A,58,94)	PIN JACK (4P)	AKB7172
CN1502(A,30,94)	PIN JACK (4P)	AKB7172
1401(A,166,28)	PCB BINDER	VEF1040

Mark No.	Description	Part No.
RESISTORS		
R 1401	(B,149,85)	RS1/16S750J
R 1402	(B,138,85)	RS1/16S750J
R 1403	(B,124,85)	RS1/16S750J
R 1404	(B,157,85)	RS1/16S750J
R 1405	(B,145,85)	RS1/16S750J
R 1406	(B,131,85)	RS1/16S750J
R 1407	(B,115,85)	RS1/16S750J
R 1408	(B,103,85)	RS1/16S750J
R 1409	(B,89,85)	RS1/16S750J
R 1410	(B,107,78)	RS1/16S750J
R 1411	(B,93,78)	RS1/16S750J
R 1412	(B,83,79)	RS1/16S750J
R 1416	(B,91,61)	RS1/16S102J
R 1417	(B,85,57)	RS1/16S153J
R 1418	(B,75,56)	RS1/16S153J
R 1419	(B,82,58)	RS1/16S333J
R 1420	(B,78,58)	RS1/16S333J
R 1421	(B,159,64)	RS1/16S102J
R 1422	(B,159,69)	RS1/16S102J
R 1423	(B,159,74)	RS1/16S102J
R 1424	(B,169,59)	RS1/16S561J
R 1425	(B,171,54)	RS1/16S561J
R 1426	(B,173,53)	RS1/16S561J
R 1430	(B,133,54)	RS1/16S473J
R 1431	(B,131,54)	RS1/16S473J
R 1432	(B,131,50)	RS1/16S473J
R 1433	(B,134,46)	RS1/16S473J
R 1434	(A,134,46)	RS1/16S0R0J
R 1439	(B,126,49)	RS1/16S473J
R 1440	(B,124,49)	RS1/16S473J
R 1441	(B,128,48)	RS1/16S473J
R 1442	(B,128,45)	RS1/16S473J
R 1443	(B,157,64)	RS1/16S154J
R 1444	(B,160,64)	RS1/16S124J
R 1446	(B,157,69)	RS1/16S154J
R 1447	(B,161,69)	RS1/16S124J
R 1449	(B,157,74)	RS1/16S154J
R 1450	(B,161,74)	RS1/16S124J
R 1461	(B,162,60)	RS1/16S104J
R 1462	(B,163,55)	RS1/16S104J
R 1463	(B,166,48)	RS1/16S104J
R 1464	(B,157,55)	RS1/16S102J
R 1465	(B,166,52)	RS1/16S102J
R 1466	(B,173,47)	RS1/16S102J
R 1501	(B,62,59)	RS1/16S271J
R 1502	(B,68,59)	RS1/16S271J
R 1503	(B,62,65)	RS1/16S121J
R 1504	(B,68,65)	RS1/16S121J
R 1505	(B,62,70)	RS1/16S101J
R 1506	(B,68,70)	RS1/16S101J
R 1507	(B,63,86)	RS1/16S474J
R 1508	(B,67,87)	RS1/16S474J
R 1509	(A,62,60)	RS1/16S103J
R 1510	(A,68,60)	RS1/16S103J
R 1511	(A,60,69)	RS1/16S103J

Mark No.	Description	Part No.
R 1512	(A,67,69)	RS1/16S103J
R 1521	(B,49,59)	RS1/16S271J
R 1522	(B,55,59)	RS1/16S271J
R 1523	(B,49,65)	RS1/16S121J
R 1524	(B,55,65)	RS1/16S121J
R 1525	(B,49,70)	RS1/16S101J
R 1526	(B,55,70)	RS1/16S101J
R 1527	(B,49,86)	RS1/16S474J
R 1528	(B,53,87)	RS1/16S474J
R 1529	(A,49,60)	RS1/16S103J
R 1530	(A,55,60)	RS1/16S103J
R 1531	(A,47,69)	RS1/16S103J
R 1532	(A,54,69)	RS1/16S103J
R 1541	(B,36,59)	RS1/16S271J
R 1542	(B,42,59)	RS1/16S271J
R 1543	(B,36,65)	RS1/16S121J
R 1544	(B,42,65)	RS1/16S121J
R 1545	(B,36,70)	RS1/16S101J
R 1546	(B,42,70)	RS1/16S101J
R 1547	(B,35,86)	RS1/16S474J
R 1548	(B,39,87)	RS1/16S474J
R 1549	(A,36,60)	RS1/16S103J
R 1550	(A,42,60)	RS1/16S103J
R 1551	(A,34,69)	RS1/16S103J
R 1552	(A,41,69)	RS1/16S103J
R 1561	(B,23,61)	RS1/16S271J
R 1562	(B,29,61)	RS1/16S271J
R 1563	(B,22,65)	RS1/16S121J
R 1564	(B,29,65)	RS1/16S121J
R 1565	(B,22,70)	RS1/16S101J
R 1566	(B,29,70)	RS1/16S101J
R 1567	(B,21,86)	RS1/16S474J
R 1568	(B,25,87)	RS1/16S474J
R 1569	(A,23,60)	RS1/16S103J
R 1570	(A,29,60)	RS1/16S103J
R 1571	(A,21,69)	RS1/16S103J
R 1572	(A,27,69)	RS1/16S103J
R 1573	(A,65,46)	RS1/16S473J
R 1574	(A,62,46)	RS1/16S471J
R 1575	(A,63,44)	RS1/16S473J
R 1576	(A,61,43)	RS1/16S471J
CAPACITORS		
C 1413	(A,118,70)	CKSRYB103K50
C 1414	(A,107,72)	CKSRYB103K50
C 1415	(A,131,70)	CKSRYB103K50
C 1416	(A,117,73)	CKSRYB103K50
C 1417	(A,143,67)	CKSRYB103K50
C 1418	(A,135,72)	CKSRYB103K50
C 1419	(A,101,61)	CEAT101M10
C 1420	(A,95,61)	CEAT101M10
C 1421	(A,97,53)	CEAT101M10
C 1425	(A,83,67)	CEAT101M10
C 1426	(A,83,73)	CEAT101M10
C 1427	(B,86,67)	CKSRYB104K25
C 1428	(B,86,72)	CKSRYB104K25
C 1431	(B,82,60)	CKSRYB224K10
C 1432	(B,78,60)	CKSRYB224K10

Mark	No.	Description	Part No.
C	1433(B,153,64)		CKSRYB103K50
C	1434(B,168,64)		CKSRYB103K50
C	1435(B,153,70)		CKSRYB103K50
C	1436(B,168,69)		CKSRYB103K50
C	1437(B,152,76)		CKSRYB103K50
C	1438(B,168,73)		CKSRYB103K50
C	1439(A,151,63)		CEAT100M50
C	1440(A,151,68)		CEAT100M50
C	1441(A,150,74)		CEAT100M50
C	1445(A,170,59)		CCSRCH120J50
C	1446(A,170,55)		CCSRCH120J50
C	1447(A,172,50)		CCSRCH120J50
C	1448(A,169,59)		CCSRCH330J50
C	1449(A,169,55)		CCSRCH330J50
C	1450(A,170,50)		CCSRCH330J50
C	1454(A,170,57)		CCSRCJ3R0C50
C	1455(A,170,52)		CCSRCJ3R0C50
C	1456(A,172,48)		CCSRCJ3R0C50
C	1469(A,130,54)		CKSRYB104K50
C	1471(A,163,58)		CEAT100M50
C	1472(A,163,53)		CEAT100M50
C	1473(A,166,46)		CEAT100M50
C	1490(B,147,85)		CKSRYB103K50
C	1491(B,133,85)		CKSRYB103K50
C	1492(B,105,85)		CKSRYB103K50
C	1493(B,91,85)		CKSRYB103K50
C	1501(B,63,84)		CCSRCH101J50
C	1502(B,67,85)		CCSRCH101J50
C	1507(B,60,70)		CCSRCH271J50
C	1508(B,66,70)		CCSRCH271J50
C	1521(B,49,84)		CCSRCH101J50
C	1522(B,53,85)		CCSRCH101J50
C	1527(B,47,70)		CCSRCH271J50
C	1528(B,53,70)		CCSRCH271J50
C	1531(A,60,78)	ELECT. CAPACITOR	CEAT470M25
C	1532(A,67,78)	ELECT. CAPACITOR	CEAT470M25
C	1533(A,47,78)	ELECT. CAPACITOR	CEAT470M25
C	1541(B,35,84)		CCSRCH101J50
C	1542(B,39,85)		CCSRCH101J50
C	1547(A,54,78)	ELECT. CAPACITOR	CEAT470M25
C	1548(A,34,78)	ELECT. CAPACITOR	CEAT470M25
C	1549(A,41,78)	ELECT. CAPACITOR	CEAT470M25
C	1550(A,21,78)	ELECT. CAPACITOR	CEAT470M25
C	1551(A,27,78)	ELECT. CAPACITOR	CEAT470M25
C	1561(B,21,84)		CCSRCH101J50
C	1562(B,25,85)		CCSRCH101J50
C	1567(A,60,46)		CKSRYB472K50
C	1568(A,58,44)		CKSRYB472K50
C	1569(B,34,70)		CCSRCH271J50
C	1570(B,40,70)		CCSRCH271J50
C	1571(B,20,70)		CCSRCH271J50
C	1572(B,27,70)		CCSRCH271J50
C	1591(B,58,86)		CKSRYB103K50
C	1593(B,30,86)		CKSRYB103K50

COMPLEX ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠Y	15	AWG18 BOARD IN	ADX7501
⚠Y	14	AWG18 BOARD IN	ADX7500

L DISPLAY ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	2301(B,164,214)	DISPLAY U-COM	PE5503A
IC	2402(A,237,230)	REMOTE RECEIVER UNIT	RPM7540-H9
Q	2401(B,205,185)	TRANSISTOR	RT1N241M
Q	2404(B,251,192)	TRANSISTOR	2SA1576A
Q	2405(B,231,192)	TRANSISTOR	RT1N241M
Q	2406(B,225,220)	DIGITAL TR (SC-70)	RT1N431M
Q	2408(B,65,214)	DIGITAL TR (SC-70)	RT1N431M
D	2404(B,238,190)	DIODE	1SS355
D	2405(B,254,195)	DIODE	1SS355
D	2406(B,252,209)	DIODE	DAN202U
D	2408(A,237,220)	LED (ORANGE)	SLI-343DCW(STU)
D	2412(A,58,214)	LED (RED)	SLI-343URW(RST)
D	2416(B,53,227)	DIODE	1SS355
L	2401(A,248,205)	RADIAL INDUCTOR	LFCA2R2J
V	2301(A,218,237)	FL TUBE	AAV7105
X	2301(A,179,197)	CERAMIC RESONATOR	VSS1142
CN	2301(A,269,204)	CONNECTOR	CKS3394
	2303(A,267,196)	CABLE HOLDER (4P)	51063-0405
	2301(A,157,201)	FL HOLDER (FE)	VNF1096
	2302(A,48,221)	17P CABLE HOLDER	51048-1700

RESISTORS

Mark	No.	Part No.
R	2301(B,104,240)	RS1/16S104J
R	2302(B,106,240)	RS1/16S104J
R	2303(B,108,240)	RS1/16S104J
R	2304(B,110,240)	RS1/16S104J
R	2305(B,112,240)	RS1/16S104J
R	2306(B,114,240)	RS1/16S104J
R	2307(B,116,240)	RS1/16S104J
R	2308(B,118,240)	RS1/16S104J
R	2309(B,120,240)	RS1/16S104J
R	2310(B,122,240)	RS1/16S104J
R	2311(B,124,240)	RS1/16S104J
R	2312(B,126,240)	RS1/16S104J
R	2313(B,128,240)	RS1/16S104J
R	2314(B,130,240)	RS1/16S104J
R	2315(B,132,240)	RS1/16S104J
R	2316(B,134,240)	RS1/16S104J
R	2317(B,136,240)	RS1/16S104J
R	2318(B,138,240)	RS1/16S104J
R	2319(B,140,240)	RS1/16S104J
R	2320(B,142,240)	RS1/16S104J
R	2321(B,144,240)	RS1/16S104J
R	2322(B,146,240)	RS1/16S104J
R	2323(B,148,240)	RS1/16S104J
R	2324(B,150,240)	RS1/16S104J
R	2325(B,152,240)	RS1/16S104J
R	2326(B,154,240)	RS1/16S104J
R	2327(B,156,240)	RS1/16S104J
R	2328(B,158,240)	RS1/16S104J
R	2329(B,160,240)	RS1/16S104J
R	2330(B,162,240)	RS1/16S104J
R	2331(B,164,240)	RS1/16S104J
R	2332(B,166,240)	RS1/16S104J
R	2333(B,168,240)	RS1/16S104J
R	2334(B,170,240)	RS1/16S104J
R	2335(B,172,240)	RS1/16S104J

Mark	No.	Description	Part No.
	R 2336(B,174,240)		RS1/16S104J
	R 2337(B,176,240)		RS1/16S104J
	R 2338(B,180,240)		RS1/16S473J
A	R 2339(B,182,240)		RS1/16S473J
	R 2340(B,184,240)		RS1/16S473J
	R 2341(B,186,240)		RS1/16S473J
	R 2342(B,188,240)		RS1/16S473J
	R 2343(B,190,240)		RS1/16S473J
	R 2344(B,192,240)		RS1/16S473J
	R 2345(B,194,240)		RS1/16S473J
	R 2346(B,196,240)		RS1/16S473J
	R 2347(B,198,240)		RS1/16S473J
	R 2348(B,200,240)		RS1/16S473J
	R 2349(B,202,240)		RS1/16S473J
B	R 2350(B,204,240)		RS1/16S473J
	R 2351(B,206,240)		RS1/16S473J
	R 2352(B,208,240)		RS1/16S473J
	R 2353(B,210,240)		RS1/16S473J
	R 2354(B,198,200)		RS1/16S473J
	R 2355(B,206,191)		RS1/16S473J
	R 2356(B,190,207)		RS1/16S473J
	R 2357(B,193,202)		RS1/16S473J
	R 2358(B,181,201)		RS1/16S105J
	R 2359(B,176,202)		RS1/16S104J
	R 2361(B,172,197)		RS1/16S221J
C	R 2362(B,170,194)		RS1/16S221J
	R 2363(B,169,194)		RS1/16S221J
	R 2364(B,167,194)		RS1/16S221J
	R 2366(B,162,198)		RS1/16S104J
	R 2368(B,126,199)		RS1/16S473J
	R 2369(B,131,208)		RS1/16S474J
	R 2370(B,114,207)		RS1/16S221J
	R 2371(B,136,208)		RS1/16S104J
	R 2372(B,135,208)		RS1/16S221J
	R 2373(B,133,208)		RS1/16S101J
D	R 2374(B,134,212)		RS1/16S221J
	R 2375(B,129,208)		RS1/16S104J
	R 2377(B,135,204)		RS1/16S474J
	R 2378(B,133,204)		RS1/16S104J
	R 2401(B,262,227)		RS1/16S221J
	R 2402(B,260,227)		RS1/16S0R0J
	R 2403(B,258,225)		RS1/16S0R0J
	R 2404(B,256,224)		RS1/16S0R0J
	R 2405(B,254,223)		RS1/16S0R0J
	R 2406(B,201,185)		RS1/16S473J
	R 2411(B,247,191)		RS1/16S0R0J
E	R 2412(B,249,192)		RS1/16S104J
	R 2413(B,240,191)		RS1/16S472J
	R 2414(B,237,196)		RS1/16S0R0J
	R 2415(B,257,192)		RS1/16S104J
	R 2416(B,251,195)		RS1/16S103J
	R 2417(B,239,196)		RS1/16S102J
	R 2419(B,232,240)		RS1/16S101J
	R 2420(B,233,220)		RS1/16S331J
	R 2422(B,64,219)		RS1/16S331J
	R 2424(B,135,193)		RS1/16S472J
F			

Mark	No.	Description	Part No.
CAPACITORS			
	C 2303(B,221,238)		CCSRCH471J50
	C 2304(A,230,236)	ELECT. CAPACITOR	CEAT101M35
	C 2305(B,178,231)		CCSRCH471J50
	C 2306(B,180,231)		CCSRCH471J50
	C 2307(B,182,231)		CCSRCH471J50
	C 2308(B,183,231)		CCSRCH471J50
	C 2309(B,187,231)		CCSRCH471J50
	C 2310(B,189,231)		CCSRCH471J50
	C 2311(B,190,231)		CCSRCH471J50
	C 2312(B,192,231)		CCSRCH471J50
	C 2313(B,196,231)		CCSRCH471J50
	C 2314(B,197,231)		CCSRCH471J50
	C 2315(B,199,231)		CCSRCH471J50
	C 2316(B,201,231)		CCSRCH471J50
	C 2317(B,204,231)		CCSRCH471J50
	C 2318(B,206,231)		CCSRCH471J50
	C 2319(B,208,231)		CCSRCH471J50
	C 2320(B,209,231)		CCSRCH471J50
	C 2351(B,180,215)		CKSRYB103K50
	C 2353(B,185,207)		CKSRYB104K25
	C 2354(B,175,202)		CKSRYB104K25
	C 2359(B,142,204)		CKSRYB103K50
	C 2360(A,87,231)	ELECT. CAPACITOR	CEJQ470M50
	C 2361(B,161,230)		CKSRYB103K50
	C 2362(B,160,230)		CKSRYB103K50
	C 2403(B,247,195)		CKSRYB103K50
	C 2404(B,237,236)		CKSRYB103K50
	C 2405(A,247,235)		CEJQ101M6R3
	C 2406(B,245,209)		CKSRYB103K50
	C 2407(A,229,210)		CEJQ221M6R3

M VOLUME ASSY

MISCELLANEOUS

	J 2451	JUMPER WIRE	D15A04-100-2651
	S 2451(A,289,207)	SWITCH	VSG1024
	S 2452(A,304,207)	SWITCH	VSG1024
	S 2453(A,314,207)	SWITCH	VSG1024
	S 2454(A,302,174)	ROTARY ENCODER	ASX7048
	2451(A,278,202)	CABLE HOLDER (4P)	51063-0405

RESISTORS

	R 2451(B,296,206)		RS1/16S681J
	R 2452(B,311,206)		RS1/16S821J

CAPACITORS

	C 2451(B,281,208)		CKSRYB102K50
	C 2452(B,304,186)		CKSRYB103K50
	C 2453(B,299,186)		CKSRYB103K50

N MULTI JOG ASSY

MISCELLANEOUS

	IC 2501(B,157,111)	LOGIC IC	CD4094BNS
	Q 2501(B,162,146)	DIGITAL TR (SC-70)	RT1N431M
	Q 2502(B,174,146)	DIGITAL TR (SC-70)	RT1N431M
	Q 2503(B,195,146)	DIGITAL TR (SC-70)	RT1N431M
	Q 2504(B,217,146)	DIGITAL TR (SC-70)	RT1N431M

Mark	No.	Description	Part No.
Q	2505(B,237,147)	DIGITAL TR (SC-70)	RT1N431M
Q	2506(B,259,146)	DIGITAL TR (SC-70)	RT1N431M
Q	2507(B,280,146)	DIGITAL TR (SC-70)	RT1N431M
Q	2508(B,314,140)	DIGITAL TR (SC-70)	RT1N431M
Q	2509(B,131,147)	DIGITAL TR (SC-70)	RT1N431M
Q	2510(B,22,184)	DIGITAL TR (SC-70)	RT1N431M
Q	2511(B,121,147)	DIGITAL TR (SC-70)	RT1N431M
Q	2512(B,87,146)	DIGITAL TR (SC-70)	RT1N431M
D	2502(A,155,147)	LED (ORANGE)	SLI-343DCW(STU)
D	2504(A,177,147)	LED (ORANGE)	SLI-343DCW(STU)
D	2506(A,198,147)	LED (ORANGE)	SLI-343DCW(STU)
D	2508(A,220,147)	LED (ORANGE)	SLI-343DCW(STU)
D	2510(A,241,147)	LED (ORANGE)	SLI-343DCW(STU)
D	2512(A,263,147)	LED (ORANGE)	SLI-343DCW(STU)
D	2514(A,284,147)	LED (ORANGE)	SLI-343DCW(STU)
D	2516(A,306,147)	LED (RED)	SLI-343URCW(RST)
D	2518(A,134,147)	LED (ORANGE)	SLI-343DCW(STU)
D	2520(A,16,186)	LED (BLUE)	SLR-343BBT(HJKL)
D	2522(A,112,147)	LED (ORANGE)	SLI-343DCW(STU)
D	2524(A,91,147)	LED (ORANGE)	SLI-343DCW(STU)
J	2501	JUMPER WIRE	D20PDD1715E
S	2501(A,36,119)	ROTARY ENCODER	ASX7031
S	2551(A,154,141)	SWITCH	VSG1024
S	2552(A,181,141)	SWITCH	VSG1024
S	2553(A,202,141)	SWITCH	VSG1024
S	2554(A,224,141)	SWITCH	VSG1024
S	2555(A,245,141)	SWITCH	VSG1024
S	2556(A,267,141)	SWITCH	VSG1024
S	2557(A,288,141)	SWITCH	VSG1024
S	2558(A,310,141)	SWITCH	VSG1024
S	2561(A,74,117)	SWITCH	VSG1024
S	2562(A,106,91)	SWITCH	VSG1024
S	2563(A,120,91)	SWITCH	VSG1024
S	2564(A,135,91)	SWITCH	VSG1024
S	2565(A,150,91)	SWITCH	VSG1024
S	2566(A,165,91)	SWITCH	VSG1024
S	2567(A,179,91)	SWITCH	VSG1024
S	2571(A,15,179)	SWITCH	VSG1024
S	2572(A,18,142)	SWITCH	VSG1024
S	2573(A,33,142)	SWITCH	VSG1024
S	2574(A,48,142)	SWITCH	VSG1024
S	2575(A,90,141)	SWITCH	VSG1024
S	2576(A,116,141)	SWITCH	VSG1024
S	2577(A,138,141)	SWITCH	VSG1024
	2501(A,41,205)	17P CABLE HOLDER	51048-1700

RESISTORS

R	2501(B,151,152)		RS1/16S331J
R	2502(B,184,152)		RS1/16S331J
R	2503(B,194,152)		RS1/16S331J
R	2504(B,216,152)		RS1/16S331J
R	2505(B,237,152)		RS1/16S331J
R	2506(B,259,152)		RS1/16S331J
R	2507(B,280,152)		RS1/16S331J
R	2508(B,302,152)		RS1/16S331J
R	2509(B,142,152)		RS1/16S331J
R	2510(B,9,186)		RS1/16S391J
R	2511(B,119,152)		RS1/16S331J
R	2512(B,87,151)		RS1/16S331J
R	2513(B,160,103)		RS1/16S0R0J
R	2551(B,149,141)		RS1/16S472J
R	2552(B,173,141)		RS1/16S681J
R	2553(B,194,141)		RS1/16S821J
R	2554(B,216,141)		RS1/16S122J
R	2555(B,237,141)		RS1/16S162J
R	2556(B,258,141)		RS1/16S272J
R	2557(B,280,141)		RS1/16S512J
R	2558(B,301,142)		RS1/16S133J
R	2561(B,77,113)		RS1/16S472J
R	2562(B,106,98)		RS1/16S681J
R	2563(B,117,90)		RS1/16S821J
R	2564(B,132,90)		RS1/16S122J
R	2565(B,145,90)		RS1/16S162J
R	2566(B,160,90)		RS1/16S272J
R	2567(B,175,90)		RS1/16S512J
R	2571(B,12,181)		RS1/16S472J
R	2572(B,18,146)		RS1/16S681J
R	2573(B,30,142)		RS1/16S821J
R	2574(B,45,142)		RS1/16S122J
R	2575(B,87,141)		RS1/16S162J
R	2576(B,106,143)		RS1/16S272J
R	2577(B,130,141)		RS1/16S512J

CAPACITORS

C	2501(B,148,108)		CKSRYB103K50
C	2502(B,36,129)		CKSRYB103K50
C	2503(B,33,129)		CKSRYB103K50
C	2551(B,151,141)		CKSRYB102K50
C	2561(B,79,113)		CKSRYB102K50
C	2571(B,18,181)		CKSRYB102K50

O HEADPHONE ASSY

MISCELLANEOUS

KN	2851(A,13,54)	WRAPPING TERMINAL	VNF1084
CN	2851(A,19,70)	4P JUMPER CONNECTOR	52147-0410
	2851(A,15,14)	PHONE JACK	AKN7029

RESISTORS

R	2851(B,20,26)		RS1/16S102J
R	2852(B,16,27)		RS1/16S0R0J

CAPACITORS

C	2851(B,19,42)		CKSRYB392K50
C	2852(B,11,29)		CKSRYB392K50
C	2853(B,10,40)		CCSRCH471J50
C	2854(B,13,43)		CKSRYB103K50
C	2855(B,13,45)		CKSRYB104K16

P FRONT-IN ASSY

MISCELLANEOUS

IC	2701(B,36,55)	OP-AMP IC	BA4560RF
Q	2651(B,116,47)	CHIP TRANSISTOR	HN1C01FU
D	2701(B,29,62)	DIODE	DAN217
D	2702(B,33,32)	DIODE	UDZS5R1(B)
D	2703(B,31,29)	DIODE	UDZS5R1(B)

Mark	No.	Description	Part No.
	D 2704(B,28,46)	DIODE	UDZS5R1(B)
	L 2653(B,117,59)	INDUCTOR	CTF1385
	L 2671(B,143,58)	INDUCTOR	CTF1385
A	L 2681(B,92,65)	CHIP SOLID INDUCTOR	QTL1013
	L 2752(B,68,60)	CHIP FERRITE BEADS	VTL1169
	L 2753(B,72,55)	CHIP FERRITE BEADS	VTL1169
	JA 2651(A,109,69)	PIN JACK (4P)	XKX3003
	JA 2652(A,88,77)	OPTICAL IN MOD.	GP1FM513RZ
	JA 2701(A,45,73)	JACK	RKN1004
	JA 2751(A,65,76)	USB CONNECTOR	XKP3086
	KN2651(A,156,42)	WRAPPING TERMINAL	VNF1084
	KN3351(A,44,37)	WRAPPING TERMINAL	VNF1084
	CN2651(A,40,28)	CONNECTOR	CKS3382
	CN2652(A,67,42)	CONNECTOR	B4B-PH
B			

RESISTORS

R 2651(B,121,58)		RS1/16S0R0J
R 2652(B,107,57)		RS1/16S0R0J
R 2653(B,128,58)		RS1/16S104J
R 2654(B,111,56)		RS1/16S104J
R 2655(B,128,54)		RS1/16S221J
R 2656(B,107,52)		RS1/16S221J
R 2657(B,124,54)		RS1/16S104J
R 2658(B,113,56)		RS1/16S104J
R 2659(B,122,46)		RS1/16S221J
C R 2660(B,113,51)		RS1/16S221J
R 2661(B,118,46)		RS1/16S153J
R 2662(B,113,43)		RS1/16S153J
R 2663(B,120,46)		RS1/16S101J
R 2664(B,112,48)		RS1/16S101J
R 2665(B,100,46)		RS1/16S470J
R 2666(B,100,39)		RS1/16S470J
R 2668(B,131,57)		RS1/16S0R0J
R 2671(B,141,62)		RS1/16S750J
R 2672(B,145,62)		RS1/16S0R0J
D R 2673(B,152,59)		RS1/16S750J
R 2674(B,150,64)		RS1/16S750J
R 2675(B,152,55)		RS1/16S0R0J
R 2676(B,148,58)		RS1/16S0R0J
R 2681(B,85,65)		RS1/16S101J
R 2701(B,41,65)		RS1/16S102J
R 2702(B,38,68)		RS1/16S682J
R 2703(B,40,69)		RS1/16S104J
R 2704(B,30,66)		RS1/16S101J
R 2705(B,34,62)		RS1/16S104J
R 2706(B,30,57)		RS1/16S472J
E R 2707(B,38,62)		RS1/16S333J
R 2708(B,41,61)		RS1/16S101J
R 2709(B,30,48)		RS1/16S472J
R 2710(B,34,48)		RS1/16S333J
R 2711(B,36,48)		RS1/16S101J
R 2712(B,34,28)		RS1/16S104J
R 2714(B,34,38)		RS1/16S102J
R 2751(B,65,60)		RS1/16S0R0J
R 2752(B,63,60)		RS1/16S0R0J
F		

Mark	No.	Description	Part No.

CAPACITORS

C 2651(B,126,58)		CCSRCH221J50
C 2652(B,109,56)		CCSRCH221J50
C 2653(A,125,47)		CEAT100M50
C 2654(A,109,46)		CEAT100M50
C 2655(B,126,54)		CCSRCH101J50
C 2656(B,115,56)		CCSRCH101J50
C 2659(A,125,39)	ELECT. CAPACITOR	CEAT470M25
C 2660(A,109,39)	ELECT. CAPACITOR	CEAT470M25
C 2661(B,113,40)		CKSRYB103K50
C 2662(B,115,37)		CKSRYB103K50
C 2663(A,102,46)	ELECT. CAPACITOR	CEAT330M25
C 2664(A,102,40)	ELECT. CAPACITOR	CEAT330M25
C 2665(B,152,46)		CKSRYB103K50
C 2666(B,150,46)		CKSRYB223K50
C 2671(B,130,61)		CKSRYB103K50
C 2672(B,143,62)		CKSRYB102K50
C 2673(B,154,57)		CKSRYB104K16
C 2674(B,156,46)		CKSRYB103K50
C 2675(B,158,46)		CKSRYB223K50
C 2681(B,89,65)		CKSRYB104K16
C 2701(B,42,69)		CCSRCH471J50
C 2702(A,36,66)		CEAT100M50
C 2703(B,32,62)		CCSRCH101J50
C 2704(B,36,62)		CCSRCH330J50
C 2705(B,32,48)		CCSRCH330J50
C 2706(A,34,36)		CEAT100M50
C 2707(B,48,43)		CKSRYB103K50
C 2709(B,52,43)		CKSRYB223K50
C 2712(A,35,44)		CEAT100M50
C 2713(B,40,57)		CKSRYB103K50
C 2714(B,40,53)		CKSRYB103K50
C 2715(A,49,59)		CEAT100M50
C 2716(A,49,53)		CEAT100M50
C 2718(B,40,38)		CKSRYB102K50
C 2719(B,40,36)		CCSRCH221J50
C 2753(B,68,56)		CKSRYB104K16
C 2755(A,68,51)		CEAT101M16
C 2756(B,73,51)		CKSRYB104K16
C 2757(B,73,46)		CCSRCH471J50

Q PRIMARY ASSY

MISCELLANEOUS

⚠IC 2001(A,305,99)	REGULATOR IC	NJM78M56FA
Q 2001(B,281,60)	DIGITAL TR (SC-70)	RT1N431M
D 2001(B,276,60)	DIODE	1SS355
D 2002(B,276,65)	DIODE	1SS355
⚠D 2003(B,296,87)	BRIDGE DIODE	S1WB(A)60SD
D 2004(B,304,75)	DIODE	1SS355
D 2006(B,308,70)	DIODE	UDZS5R1(B)
⚠L 2001(A,244,24)	LINE FILTER	XTF3004
H 2001(A,243,46)	FUSE CLIP	AKR7001
H 2002(A,223,46)	FUSE CLIP	AKR7001
KN2001(A,194,19)	SCREW PLATE	VNE1948
⚠RY2001(A,251,58)	JOE LOW POWER RELAY	ASR7013
⚠T 2001(A,273,84)	STANDBY TRANSFORMER	ATT7040
CN2001(A,301,115)	9P SOCKET	KP200TA9L
CN2002(A,246,115)	5P SOCKET	KP200TA5L
⚠CN2003(A,225,25)	AC CORD SOCKET	RKP1751

Mark	No.	Description	Part No.
RESISTORS			
	R 2002(A,279,68)	CARBON FILM RESISTOR	RD1/4MUF101J
	R 2003(B,305,70)		RS1/16S103J
	R 2004(B,302,70)		RS1/16S332J
CAPACITORS			
⚠	C 2002(A,266,26)	FILM CAPACITOR	ACE7013
⚠	C 2003(A,251,52)	SAFETY CAPACITOR	XCG3009
	C 2004(A,290,106)	FILM CAPACITOR	CQMBA103J50
	C 2010(A,309,106)		CEAT221M25
	C 2011(B,310,85)		CKSRYB103K50
	C 2012(A,303,88)	ELECT. CAPACITOR	CEAT102M25

R TRANS 1 ASSY

TRANS 1 Assy has no service part.

SECONDARY ASSY

MISCELLANEOUS

	Y 10	AWG18 BOARD IN	ADX7503
	Y 9	AWG18 BOARD IN	ADX7502
	Y 11	AWG18 BOARD IN	ADX7504
	Y 12	AWG18 BOARD IN	ADX7505

S TRANS 2-1 ASSY

MISCELLANEOUS

⚠	IC 3251(A,228,215)	PROTECTOR (7A)	AEK7021
⚠	IC 3252(A,239,164)	PROTECTOR (7A)	AEK7021
	Q 3251(B,244,224)	CHIP TRANSISTOR	RN1901
	Q 3252(B,253,224)	TRANSISTOR	UMD2N
	Q 3253(B,261,224)	TRANSISTOR	UMD2N
⚠	D 3251(B,234,181)	BRIDGE DIODE	S1WB(A)60SD
	D 3253(B,236,216)	DIODE	UDZS8R2(B)
	D 3254(B,263,217)	DIODE	UDZS7R5(B)
	D 3255(B,233,216)	DIODE	UDZS9R1(B)
	D 3256(B,263,219)	DIODE	UDZS8R2(B)
	D 3257(B,233,223)	DIODE	UDZS9R1(B)
	D 3258(B,258,218)	DIODE	UDZS8R2(B)
	D 3259(B,238,223)	DIODE	UDZS6R8(B)
	D 3260(B,258,220)	DIODE	UDZS6R8(B)
	D 3261(B,240,220)	DIODE	UDZS12(B)
	D 3262(B,253,220)	DIODE	UDZS12(B)
	D 3263(B,238,218)	DIODE	UDZS13(B)
	D 3264(B,253,218)	DIODE	UDZS15(B)
	D 3265(B,257,226)	DIODE	UDZS13(B)
	D 3266(B,267,227)	DIODE	UDZS13(B)
	J 3251	JUMPER WIRE	D20PDY0610E
	3251(A,261,193)	6P CABLE HOLDER	51048-0600

RESISTORS

⚠	R 3253(A,248,192)	METAL OXIDE RESISTOR	RS1LMF472J
⚠	R 3254(A,263,212)	METAL OXIDE RESISTOR	RS1LMF472J
⚠	R 3255(A,245,195)	CARBON FILM RESISTOR	RD1/2LMF332J
⚠	R 3256(A,259,215)	CARBON FILM RESISTOR	RD1/2LMF332J

Mark	No.	Description	Part No.
CAPACITORS			
	C 3253(A,243,186)	ELECT. CAPACITOR	CEAT471M2A
	C 3254(A,253,172)	ELECT. CAPACITOR	CEAT471M2A
	C 3255(A,240,202)	ELECT. CAPACITOR	CEAT101M63
	C 3256(A,240,213)	ELECT. CAPACITOR	CEAT101M63
	C 3257(A,269,190)	ELECT. CAPACITOR	CEAT221M2A
	C 3258(A,262,201)	ELECT. CAPACITOR	CEAT221M2A

T DIODE 1 ASSY

MISCELLANEOUS

⚠	D 3301(A,175,164)	DIODE	D5SBA20(B)
⚠	D 3302(A,175,199)	DIODE	D5SBA20(B)

RESISTORS

⚠	R 3301(A,194,172)	CARBON FILM RESISTOR	RD1/4MUF100J

CAPACITORS

	C 3301(A,191,182)	FILM CAPACITOR	CFTLA104J2A
	C 3302(A,196,177)	FILM CAPACITOR	CFTLA104J2A

U VH TR ASSY

MISCELLANEOUS

⚠	IC 3351(A,177,136)	IC PROTECTOR	ICP-N15
⚠	IC 3352(A,177,152)	IC PROTECTOR	ICP-N15
	Q 3351(B,172,130)	CHIP TRANSISTOR	2SA1514K
⚠	Q 3352(A,162,135)	TRANSISTOR	2SB1186A
⚠	Q 3353(A,162,150)	TRANSISTOR	2SD1763A
	Q 3354(B,172,145)	CHIP TRANSISTOR	2SC3906K
⚠	D 3351(B,173,141)	DIODE	1SR154-400
⚠	D 3352(B,176,157)	DIODE	1SR154-400
	CN3351(A,184,138)	6P JUMPER CONNECTOR	52147-0610

RESISTORS

	R 3351(B,179,129)		RS1/16S471J
	R 3352(B,168,128)		RS1/16S100J
	R 3353(B,168,143)		RS1/16S100J

W PS/SP ASSY

MISCELLANEOUS

	Q 3001(B,161,85)	CHIP TRANSISTOR	DTC114TUA
	Q 3002(B,229,97)	CHIP TRANSISTOR	DTC114TUA
	Q 3003(B,247,90)	CHIP TRANSISTOR	DTC114TUA
	Q 3004(B,290,84)	CHIP TRANSISTOR	DTC114TUA
	Q 3005(B,212,99)	CHIP TRANSISTOR	DTC114TUA
	D 3001(B,168,80)	DIODE	1SS355
	D 3002(B,165,80)	DIODE	1SS355
	D 3003(B,216,88)	DIODE	1SS355
	D 3004(B,213,88)	DIODE	1SS355
	D 3005(B,247,82)	DIODE	1SS355
	D 3006(B,244,82)	DIODE	1SS355
	D 3007(B,291,79)	DIODE	1SS355
	D 3008(B,289,79)	DIODE	1SS355
	D 3009(B,217,99)	DIODE	1SS355
	D 3010(B,215,99)	DIODE	1SS355

Mark	No.	Description	Part No.
	L 3011(A,188,78)	COIL	ATH1053
	L 3021(A,146,69)	COIL	ATH1053
	L 3031(A,199,83)	COIL	ATH1053
	L 3041(A,258,82)	COIL	ATH1053
	L 3051(A,236,90)	COIL	ATH1053
	L 3061(A,299,74)	COIL	ATH1053
	L 3071(A,280,84)	COIL	ATH1053
	J 3009(A,174,89)	CONNECTOR ASSY	PF13PG-R07
	KN3001(A,318,64)	WRAPPING TERMINAL	VNF1084
	RY3001(A,163,81)	RELAY	ASR7001
	RY3002(A,211,89)	RELAY	ASR7001
	RY3003(A,242,83)	RELAY	ASR7001
	RY3004(A,286,82)	RELAY	ASR7001
	RY3005(A,219,103)	RELAY	ASR7001
	CN3001(A,190,33)	SPEAKER TERMINAL 8-P	AKE7119
	CN3002(A,274,33)	SPEAKER TERMINAL 6-P	AKE7108
	CN3007(A,313,90)	5P PLUG	KM200TA5
	CN3008(A,313,145)	9P PLUG	KM200TA9
	Y 13	AWG14 BOARD IN	ADX7512
	Y 8	AWG14 BOARD IN	ADX7512

RESISTORS

⚠	R 3011(A,187,68)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠	R 3012(A,175,64)	METAL OXIDE RESISTOR	RS1LMF100J
⚠	R 3013(A,193,94)	METAL OXIDE RESISTOR	RS2LMF331J
⚠	R 3021(A,148,79)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠	R 3022(A,152,51)	METAL OXIDE RESISTOR	RS1LMF100J
⚠	R 3023(A,188,97)	METAL OXIDE RESISTOR	RS2LMF331J
⚠	R 3031(A,196,87)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠	R 3032(A,194,67)	METAL OXIDE RESISTOR	RS1LMF100J
⚠	R 3041(A,254,82)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠	R 3042(A,267,67)	METAL OXIDE RESISTOR	RS1LMF100J
⚠	R 3051(A,240,93)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠	R 3052(A,237,79)	METAL OXIDE RESISTOR	RS1LMF100J
⚠	R 3061(A,309,63)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠	R 3062(A,313,73)	METAL OXIDE RESISTOR	RS1LMF100J
⚠	R 3071(A,280,88)	METAL OXIDE RESISTOR	RS1/2LMF4R7J
⚠	R 3072(A,268,94)	METAL OXIDE RESISTOR	RS1LMF100J
	R 3101(A,222,115)	CARBON FILM RESISTOR	RD1/4MUF473J
	R 3102(A,252,115)	CARBON FILM RESISTOR	RD1/4MUF473J

CAPACITORS

C 3001(A,164,89)		CEAT101M50
C 3011(A,190,60)		CFTLA104J50
C 3012(A,203,53)		CFTLA104J50
C 3013(A,190,42)	FILM CAPACITOR	CQMBA103J50
C 3021(A,157,48)		CFTLA104J50
C 3022(A,157,39)		CFTLA104J50
C 3023(A,169,42)	FILM CAPACITOR	CQMBA103J50
C 3031(A,205,66)		CFTLA104J50
C 3032(A,200,60)		CFTLA104J50
C 3033(A,211,42)	FILM CAPACITOR	CQMBA103J50
C 3041(A,257,63)		CFTLA104J50
C 3042(A,253,57)		CFTLA104J50
C 3043(A,253,42)	FILM CAPACITOR	CQMBA103J50
C 3051(A,224,70)		CFTLA104J50
C 3052(A,230,70)		CFTLA104J50
C 3053(A,232,42)	FILM CAPACITOR	CQMBA103J50
C 3061(A,308,58)		CFTLA104J50
C 3062(A,302,53)		CFTLA104J50
C 3063(A,295,42)	FILM CAPACITOR	CQMBA103J50
C 3071(A,274,70)		CFTLA104J50
C 3072(A,279,65)		CFTLA104J50
C 3073(A,274,42)	FILM CAPACITOR	CQMBA103J50
C 3091(B,181,50)		CKSRYB222K50
C 3092(B,179,50)		CKSRYB222K50
C 3093(B,265,50)		CKSRYB222K50
C 3094(B,263,50)		CKSRYB222K50
C 3096(B,318,55)		CKSRYB222K50
C 3101(A,212,137)		ACH7255
C 3102(A,258,137)		ACH7255

X TRANS 2-2 ASSY

MISCELLANEOUS

H 3401(A,120,100)	FUSE CLIP	AKR7001
H 3402(A,98,100)	FUSE CLIP	AKR7001
H 3403(A,120,87)	FUSE CLIP	AKR7001
H 3404(A,98,87)	FUSE CLIP	AKR7001
H 3405(A,120,74)	FUSE CLIP	AKR7001
H 3406(A,98,74)	FUSE CLIP	AKR7001
H 3407(A,119,57)	FUSE CLIP	AKR7001
H 3408(A,97,57)	FUSE CLIP	AKR7001
H 3409(A,120,45)	FUSE CLIP	AKR7001
H 3410(A,98,45)	FUSE CLIP	AKR7001
J 3401(A,132,97)	CONNECTOR ASSY	PF12PG-R40

Y TRANS SIDE ASSY

MISCELLANEOUS

J 3201	JUMPER WIRE	D20PDY0410E
CN3202(A,60,8)	CONNECTOR	CKS3382
CN3203(A,319,21)	CONNECTOR	B13B-PH
3201(A,84,28)	4P CABLE HOLDER	51048-0400

Z LOCAL P-SUPPLY ASSY

MISCELLANEOUS

⚠	IC 3502(A,120,181)	PROTECTOR (1.6A)	AEK7012
⚠	IC 3504(A,80,176)	IC	NJM78M05FA
⚠	IC 3505(A,80,226)	REGULATOR IC	NJM78M56FA
⚠	IC 3506(A,80,201)	IC	NJM79M05FA
	Q 3501(B,110,149)	TRANSISTOR	UMD2N
⚠	Q 3502(A,80,151)	TRANSISTOR	2SD1763A
	Q 3503(B,144,140)	DIGITAL TRANSISTOR	DTC124EUA
⚠	D 3501(B,120,163)	DIODE	1SR154-400
⚠	D 3502(B,124,163)	DIODE	1SR154-400
⚠	D 3503(B,128,163)	DIODE	1SR154-400
	D 3504(B,136,146)	DIODE	UDZS6R2(B)
	D 3505(B,138,146)	DIODE	UDZS6R2(B)
	D 3506(B,141,146)	DIODE	UDZS6R2(B)
	D 3507(B,143,146)	DIODE	UDZS6R2(B)
	D 3508(B,142,180)	DIODE	UDZS6R2(B)
⚠	D 3509(B,108,160)	DIODE	1SR154-400
⚠	D 3510(B,113,160)	DIODE	1SR154-400
	D 3511(B,112,132)	DIODE	UDZS27(B)
⚠	D 3512(A,117,196)	DIODE	D3SBA20(B)
	D 3513(B,86,180)	CHIP DIODE	RB501V-40

Mark	No.	Description	Part No.
⚠D	3514(A,95,181)	DIODE	MTZJ6R2(B)
D	3515(B,87,236)	CHIP DIODE	RB501V-40
D	3516(B,87,204)	CHIP DIODE	RB501V-40
D	3529(B,80,196)	DIODE	1SS355
J	35029P	JUMPER WIRE	D20PDY0915E
J	3503(A,152,132)	CONNECTOR ASSY	PF05PG-Q15
J	3504(A,160,239)	CONNECTOR ASSY	PF10PG-R07
J	3505(A,138,232)	CONNECTOR ASSY	PF09PG-R37
J	3506	JUMPER WIRE	D20PDY0410E
CN3501	(A,141,151)	CONNECTOR	B12B-PH
	3502(A,149,215)	9P CABLE HOLDER	51048-0900
	3506(A,150,167)	4P CABLE HOLDER	51048-0400

RESISTORS

R	3501(B,120,152)		RS1/16S473J
⚠R	3503(A,127,156)	CARBON FILM RESISTOR	RD1/4MUF391J
R	3504(B,111,142)		RS1/16S472J
R	3505(B,108,142)		RS1/16S101J
R	3506(B,140,139)		RS1/16S222J
⚠R	3508(A,134,181)	CARBON FILM RESISTOR	RD1/4MUF4R7J

CAPACITORS

C	3501(A,150,148)	FILM CAPACITOR	CQMBA104J50
C	3502(A,122,168)	ELECT. CAPACITOR	CEANP101M35
C	3503(A,118,157)	ELECT. CAPACITOR	CEAT101M35
C	3504(A,123,147)		CEAT221M35
C	3505(A,139,179)		CEAT101M16
C	3506(A,133,145)		CEAT470M50
C	3508(B,122,152)		CKSRYB103K50
C	3510(A,110,171)	ELECT. CAPACITOR	CEANP102M16
C	3511(A,107,154)	ELECT. CAPACITOR	CEAT102M35
C	3512(A,109,135)		CEAT100M50
C	3513(B,83,149)		CKSRYB102K50
C	3514(A,145,136)		CEAT100M50
C	3515(A,137,140)	ELECT. CAPACITOR	CEANP470M25
C	3516(A,122,187)	FILM CAPACITOR	CQMBA104J50
C	3517(B,83,175)		CKSRYB103K50
C	3518(A,85,189)		CEAT221M16
C	3519(A,117,208)	ELECT. CAPACITOR	CEAT682M16
C	3520(A,134,208)	ELECT. CAPACITOR	CEAT222M16
C	3521(B,83,224)		CKSRYB103K50
C	3522(B,87,201)		CKSRYB103K50
C	3523(A,88,227)		CEAT101M16
C	3524(A,85,214)		CEAT101M16

AA DC/DC ASSY

MISCELLANEOUS

⚠IC	651 (A,43,196)	REGULATOR IC	PQ1CG3032FZ
⚠D	651 (B,45,207)	DIODE	RB051L-40
⚠D	653 (A,38,152)	DIODE	D3SBA20(B)
⚠D	654 (A,68,231)	DIODE	MTZJ6R2(B)
L	651 (A,50,212)	INDUCTOR	ATH7020
KN651	(A,40,181)	SCREW PLATE	VNE1948
CN651	(A,70,221)	3P TOP POST	B3B-EH
CN652	(A,70,166)	4P JUMPER CONNECTOR	52147-0410
	651 (A,52,146)	PCB BINDER	VEF1040

Mark	No.	Description	Part No.

RESISTORS

⚠R	651 (A,64,164)	CARBON FILM RESISTOR	RD1/4MUF4R7J
R	652 (B,39,194)	CHIP METAL FILM R	RN1/16SE1800D
R	653 (B,38,195)		RN1/16SE3001D
R	654 (B,41,192)		RN1/16SE1001D

CAPACITORS

C	651 (A,68,150)	FILM CAPACITOR	CQMBA104J50
C	654 (A,59,176)	ELECT. CAPACITOR	CEAT103M16
C	655 (A,67,189)	ELECT. CAPACITOR	CEHAZL102M16
C	657 (A,55,226)	ELECT. CAPACITOR	CEHAZL102M6R3

AB IR I/O ASSY

MISCELLANEOUS

Q	3751(B,34,66)	TRANSISTOR	2SD1664
D	3752(B,41,60)	DIODE	UDZS10(B)
KN3751	(A,40,91)	SCREW PLATE	VNE1948
CN3701	(A,58,46)	10P CONNECTOR	VKN1241
CN3702	(A,74,44)	23P SOCKET	XKP3082
CN3703	(A,28,43)	CONNECTOR	CKS3376

RESISTORS

R	3703(B,25,84)		RS1/16S0R0J
R	3752(A,38,66)	CARBON FILM RESISTOR	RD1/4MUF391J
R	3755(B,48,62)		RS1/16S0R0J

CAPACITORS

C	3701(B,49,81)		CKSRYB104K50
C	3702(B,27,84)		CCSRCH471J50
C	3752(A,38,61)		CEAT101M16
C	3753(B,26,71)		CKSRYB103K50
C	3754(B,24,71)		CKSRYB104K50
C	3755(B,28,71)		CKSRYB105K10
C	3756(B,67,56)		CKSRYB103K50
C	3757(B,71,58)		CCSRCH471J50

AC VIDEO CONNECT ASSY

MISCELLANEOUS

CN3801	(A,288,240)	CONNECTOR POST	S9B-PH
CN3802	(A,298,175)	21P PLUG	XKP3070
CN3803	(A,305,198)	15P PLUG	XKP3067
CN3804	(A,308,222)	13P PLUG	XKP3066

POWER AMP ASSY

MISCELLANEOUS

J	3	JUMPER WIRE	D20PDY0525E
Y	1	LEAD WITH HOUSING	ADX7459
Y	6	LEAD WITH HOUSING	ADX7498
Y	4	LEAD WITH HOUSING	ADX7460
Y	3	LEAD WITH HOUSING	ADX7458
Y	2	LEAD WITH HOUSING	ADX7457
Y	5	LEAD WITH HOUSING	ADX7404
C	5608(B,36,42)	CAPACITOR (CERAMIC)	ACG7057
C	5609(A,27,51)	ELECT. CAPACITOR	CEAT100M2A
C	5615(B,45,47)		CCSRCH220J50
C	5616(B,42,49)		CCSRCH220J50
C	5617(A,47,52)		CEAT331M10

Mark	No.	Description	Part No.
	C 5623(A,69,58)		CEAT100M63
	C 5624(A,69,42)		CEAT100M63
	C 5632(B,28,39)		CKSRYB224K16
A	C 5641(A,12,35)		CEANP2R2M50

V BRIDGE 1-L ASSY

MISCELLANEOUS

CN5801(A,44,196)	23P PLUG	XKP3071
CN5802(A,69,196)	23P PLUG	XKP3071
CN5803(A,44,163)	9P PLUG	XKP3064
CN5804(A,69,163)	9P PLUG	XKP3064
5801(A,76,147)	PCB BINDER	VEF1040

AD POWER AMP-L ASSY

MISCELLANEOUS

⚠	IC 5001(A,174,135)	DARLINGTON POWER IC	SAP17N(OY)
⚠	IC 5002(A,208,135)	DARLINGTON POWER IC	SAP17P(OY)
⚠	IC 5101(A,106,135)	DARLINGTON POWER IC	SAP17N(OY)
⚠	IC 5102(A,140,135)	DARLINGTON POWER IC	SAP17P(OY)
⚠	IC 5201(A,242,135)	DARLINGTON POWER IC	SAP17N(OY)
⚠	IC 5202(A,276,135)	DARLINGTON POWER IC	SAP17P(OY)
⚠	IC 5601(A,310,135)	DARLINGTON POWER IC	SAP17N(OY)
	Q 5001(B,186,207)	CHIP TRANSISTOR	2SD2704K
	Q 5002(B,174,194)	TRANSISTOR	IMT4
	Q 5003(B,188,198)	CHIP TRANSISTOR	2SA1514K
	Q 5004(A,185,184)	TRANSISTOR	2SA1145
	Q 5005(A,161,191)	TRANSISTOR	2SC2705
	Q 5041(B,149,195)	CHIP TR	2SA1255
	Q 5101(B,132,207)	CHIP TRANSISTOR	2SD2704K
	Q 5102(B,120,194)	TRANSISTOR	IMT4
	Q 5103(B,134,198)	CHIP TRANSISTOR	2SA1514K
	Q 5104(A,131,184)	TRANSISTOR	2SA1145
	Q 5105(A,108,191)	TRANSISTOR	2SC2705
	Q 5141(B,91,201)	CHIP TR	2SA1255
	Q 5201(B,274,206)	CHIP TRANSISTOR	2SD2704K
	Q 5202(B,262,193)	TRANSISTOR	IMT4
	Q 5203(B,276,197)	CHIP TRANSISTOR	2SA1514K
	Q 5204(A,273,183)	TRANSISTOR	2SA1145
	Q 5205(A,250,191)	TRANSISTOR	2SC2705
	Q 5241(B,238,197)	CHIP TR	2SA1255
	D 5001(B,190,188)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5002(B,188,188)	DIODE	1SS355
	D 5003(B,180,184)	DIODE	1SS355
	D 5004(B,172,184)	DIODE	1SS355
	D 5005(B,177,184)	DIODE	UDZS4R7(B)
	D 5006(B,175,184)	DIODE	UDZS4R7(B)
	D 5041(B,149,174)	DIODE	1SS355
	D 5042(B,151,174)	DIODE	1SS355
	D 5043(B,151,203)	DIODE	1SS355
	D 5044(B,154,171)	DIODE	1SS355
	D 5101(B,137,188)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5102(B,135,188)	DIODE	1SS355
	D 5103(B,126,184)	DIODE	1SS355
	D 5104(B,119,184)	DIODE	1SS355
	D 5105(B,124,184)	DIODE	UDZS4R7(B)
	D 5106(B,121,184)	DIODE	UDZS4R7(B)
	D 5141(B,91,188)	DIODE	1SS355
	D 5142(B,95,188)	DIODE	1SS355
	D 5143(B,95,202)	DIODE	1SS355
	D 5144(B,97,188)	DIODE	1SS355
	D 5201(B,279,187)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5202(B,276,187)	DIODE	1SS355
	D 5203(B,268,183)	DIODE	1SS355
	D 5204(B,261,183)	DIODE	1SS355
	D 5205(B,266,183)	DIODE	UDZS4R7(B)
	D 5206(B,263,183)	DIODE	UDZS4R7(B)
	D 5241(B,238,173)	DIODE	1SS355
	D 5242(B,240,173)	DIODE	1SS355
	D 5243(B,240,202)	DIODE	1SS355
	D 5244(B,242,173)	DIODE	1SS355
	CN5001(A,319,200)	13P SOCKET	XKP3077
	CN5002(A,85,214)	11P SOCKET	XKP3076
	CN5003(A,312,191)	PLUG 6-P	KM250NA6L
	CN5004(A,176,224)	CONNECTOR POST	B2B-PH
	5001(A,160,225)	PCB BINDER	VEF1040

RESISTORS

	R 5001(B,192,202)		RS1/16S102J
	R 5002(B,180,202)		RS1/16S221J
	R 5003(B,177,203)		RS1/16S333J
	R 5004(B,192,205)		RS1/16S103J
	R 5005(B,170,191)		RS1/16S152J
	R 5006(B,168,198)		RS1/16S821J
	R 5007(B,191,197)		RS1/16S2001F
	R 5008(B,179,194)		RS1/16S682J
	R 5009(A,183,193)	CARBON FILM RESISTOR	RD1/2VM473J
	R 5010(B,190,183)		RS1/16S151J
	R 5011(B,188,184)		RN1/16SE1201D
	R 5012(B,162,195)		RS1/16S221J
	R 5013(B,183,150)	CHIP RESISTOR	RS1/16S62R0F
	R 5021(B,176,153)		RS1/16S101J
	R 5022(B,190,153)		RS1/16S101J
⚠	R 5023(A,196,166)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5024(A,162,176)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5025(B,163,156)	CHIP RESISTOR	ACN7132
⚠	R 5026(B,200,156)	CHIP RESISTOR	ACN7132
⚠	R 5027(A,190,166)	RESISTOR (0.18, 5W)	ACN7121
	R 5029(B,167,203)		RN1/10SE3302D
	R 5030(B,173,203)		RN1/16SE1001D
	R 5031(B,173,205)		RN1/16SE1500D
	R 5032(B,160,195)		RS1/16S151J
	R 5041(B,147,169)		RS1/16S473J
	R 5042(B,149,169)		RS1/16S223J
	R 5043(B,145,169)		RS1/16S471J
	R 5044(B,151,169)		RS1/16S471J
	R 5045(B,151,179)		RS1/16S472J
	R 5046(B,154,179)		RS1/16S472J
	R 5047(B,150,187)		RS1/16S122J
	R 5048(B,151,183)		RS1/16S154J
	R 5049(B,154,183)		RS1/16S103J
	R 5050(B,152,187)		RS1/16S103J
	R 5101(B,139,202)		RS1/16S102J

Mark	No.	Description	Part No.
	R 5102(B,126,202)		RS1/16S221J
	R 5103(B,123,203)		RS1/16S333J
	R 5104(B,139,205)		RS1/16S103J
	R 5105(B,116,191)		RS1/16S152J
	R 5106(B,115,198)		RS1/16S821J
	R 5107(B,138,197)		RS1/16S2001F
	R 5108(B,126,194)		RS1/16S682J
	R 5109(A,130,193)	CARBON FILM RESISTOR	RD1/2VM473J
	R 5110(B,137,183)		RS1/16S151J
	R 5111(B,135,184)		RN1/16SE1201D
	R 5112(B,109,195)		RS1/16S221J
	R 5113(B,115,150)	CHIP RESISTOR	RS1/16S62R0F
	R 5121(B,108,153)		RS1/16S101J
	R 5122(B,129,150)		RS1/16S101J
⚠	R 5123(A,138,166)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5124(A,108,176)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5125(B,99,156)	CHIP RESISTOR	ACN7132
⚠	R 5126(B,136,156)	CHIP RESISTOR	ACN7132
⚠	R 5127(A,132,166)	RESISTOR (0.18, 5W)	ACN7121
	R 5129(B,113,203)		RN1/10SE3302D
	R 5130(B,119,203)		RN1/16SE1001D
	R 5131(B,119,205)		RN1/16SE1500D
	R 5132(B,106,195)		RS1/16S151J
	R 5141(B,93,184)		RS1/16S473J
	R 5142(B,95,184)		RS1/16S223J
	R 5143(B,91,184)		RS1/16S471J
	R 5144(B,97,184)		RS1/16S471J
	R 5145(B,93,193)		RS1/16S472J
	R 5146(B,96,193)		RS1/16S472J
	R 5147(B,89,196)		RS1/16S122J
	R 5148(B,95,197)		RS1/16S154J
	R 5149(B,97,197)		RS1/16S103J
	R 5150(B,97,202)		RS1/16S103J
	R 5201(B,281,201)		RS1/16S102J
	R 5202(B,268,201)		RS1/16S221J
	R 5203(B,265,202)		RS1/16S333J
	R 5204(B,281,204)		RS1/16S103J
	R 5205(B,258,191)		RS1/16S152J
	R 5206(B,257,198)		RS1/16S821J
	R 5207(B,279,196)		RS1/16S2001F
	R 5208(B,268,193)		RS1/16S682J
	R 5209(A,271,192)	CARBON FILM RESISTOR	RD1/2VM473J
	R 5210(B,278,183)		RS1/16S151J
	R 5211(B,276,183)		RN1/16SE1201D
	R 5212(B,251,195)		RS1/16S221J
	R 5213(B,257,149)	CHIP RESISTOR	RS1/16S62R0F
	R 5221(B,251,153)		RS1/16S101J
	R 5222(B,265,153)		RS1/16S101J
⚠	R 5223(A,280,164)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5224(A,249,175)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5225(B,238,156)	CHIP RESISTOR	ACN7132
⚠	R 5226(B,276,156)	CHIP RESISTOR	ACN7132
⚠	R 5227(A,274,165)	RESISTOR (0.18, 5W)	ACN7121
	R 5229(B,255,202)		RN1/10SE3302D
	R 5230(B,261,202)		RN1/16SE1001D
	R 5231(B,261,204)		RN1/16SE1500D
	R 5232(B,248,195)		RS1/16S151J
	R 5241(B,237,169)		RS1/16S473J
	R 5242(B,239,169)		RS1/16S223J
	R 5243(B,235,169)		RS1/16S471J
	R 5244(B,241,169)		RS1/16S471J
	R 5245(B,240,180)		RS1/16S472J
	R 5246(B,242,180)		RS1/16S472J
	R 5247(B,240,189)		RS1/16S122J
	R 5248(B,237,180)		RS1/16S154J
	R 5249(B,242,184)		RS1/16S103J
	R 5250(B,240,184)		RS1/16S103J
⚠	R 5292(B,300,156)	CHIP RESISTOR	ACN7132
	R 5613(B,317,154)	CHIP RESISTOR	RS1/16S62R0F
	R 5621(B,312,154)		RS1/16S101J

CAPACITORS

	C 5001(A,183,203)		CEAT4R7M50
	C 5002(B,177,200)		CCSRCH221J50
	C 5004(B,167,194)		CKSRYB102K50
	C 5007(A,195,193)		CEAT101M10
	C 5008(B,164,195)	CAPACITOR (CERAMIC)	ACG7057
	C 5009(A,179,189)	ELECT. CAPACITOR	CEAT100M2A
	C 5011(B,169,142)	CAPACITOR (CERAMIC)	ACG7056
	C 5012(B,197,142)	CAPACITOR (CERAMIC)	ACG7056
	C 5015(B,168,205)		CCSRCH220J50
	C 5016(B,168,207)		CCSRCH220J50
	C 5017(A,172,207)		CEAT331M10
	C 5023(A,190,180)		CEAT100M63
	C 5024(A,166,184)		CEAT100M63
	C 5032(B,162,199)		CKSRYB224K16
	C 5041(A,147,190)		CEANP2R2M50
	C 5051(A,217,183)	ELECT. CAPACITOR	CEAT100M2A
	C 5052(A,222,177)	ELECT. CAPACITOR	CEAT100M2A
	C 5101(A,129,203)		CEAT4R7M50
	C 5102(B,123,200)		CCSRCH221J50
	C 5104(B,113,194)		CKSRYB102K50
	C 5107(A,141,193)		CEAT101M10
	C 5108(B,111,195)	CAPACITOR (CERAMIC)	ACG7057
	C 5109(A,125,189)	ELECT. CAPACITOR	CEAT100M2A
	C 5111(B,101,142)	CAPACITOR (CERAMIC)	ACG7056
	C 5112(B,130,142)	CAPACITOR (CERAMIC)	ACG7056
	C 5115(B,115,205)		CCSRCH220J50
	C 5116(B,115,207)		CCSRCH220J50
	C 5117(A,119,207)		CEAT331M10
	C 5123(A,137,180)		CEAT100M63
	C 5124(A,112,184)		CEAT100M63
	C 5132(B,108,199)		CKSRYB224K16
	C 5141(A,88,191)		CEANP2R2M50
	C 5201(A,271,202)		CEAT4R7M50
	C 5202(B,265,199)		CCSRCH221J50
	C 5204(B,255,194)		CKSRYB102K50
	C 5207(A,283,192)		CEAT101M10
	C 5208(B,253,195)	CAPACITOR (CERAMIC)	ACG7057
	C 5209(A,267,187)	ELECT. CAPACITOR	CEAT100M2A
	C 5211(B,243,142)	CAPACITOR (CERAMIC)	ACG7056
	C 5212(B,271,142)	CAPACITOR (CERAMIC)	ACG7056
	C 5215(B,257,204)		CCSRCH220J50
	C 5216(B,257,206)		CCSRCH220J50
	C 5217(A,261,206)		CEAT331M10
	C 5223(A,287,181)		CEAT100M63
	C 5224(A,255,184)		CEAT100M63
	C 5232(B,250,199)		CKSRYB224K16
	C 5241(A,237,192)		CEANP2R2M50
	C 5611(B,307,142)	CAPACITOR (CERAMIC)	ACG7056

Mark	No.	Description	Part No.

AE POSI 1-L ASSY

MISCELLANEOUS

⚠	TH4501(A,54,223)	POSISTOR	PTFM04BH222Q2N34B0
	J 4501(A,66,220)	CONNECTOR ASSY	PG02KS-E07

AF POSI 2-L ASSY

MISCELLANEOUS

⚠	TH4502(A,79,235)	POSISTOR	PTFM04BC222Q2N34B0
	J 4502(A,76,223)	CONNECTOR ASSY	PG02KS2E07

AG POWER AMP-R ASSY

MISCELLANEOUS

⚠	IC 5301(A,196,111)	DARLINGTON POWER IC	SAP17N(OY)
⚠	IC 5302(A,162,111)	DARLINGTON POWER IC	SAP17P(OY)
⚠	IC 5401(A,128,111)	DARLINGTON POWER IC	SAP17N(OY)
⚠	IC 5402(A,94,111)	DARLINGTON POWER IC	SAP17P(OY)
⚠	IC 5501(A,264,111)	DARLINGTON POWER IC	SAP17N(OY)
⚠	IC 5502(A,230,111)	DARLINGTON POWER IC	SAP17P(OY)
⚠	IC 5602(A,298,111)	DARLINGTON POWER IC	SAP17P(OY)
	Q 5301(B,186,38)	CHIP TRANSISTOR	2SD2704K
	Q 5302(B,176,52)	TRANSISTOR	IMT4
	Q 5303(B,187,48)	CHIP TRANSISTOR	2SA1514K
	Q 5304(A,185,62)	TRANSISTOR	2SA1145
	Q 5305(A,161,55)	TRANSISTOR	2SC2705
	Q 5341(B,146,56)	CHIP TR	2SA1255
	Q 5401(B,132,38)	CHIP TRANSISTOR	2SD2704K
	Q 5402(B,122,52)	TRANSISTOR	IMT4
	Q 5403(B,133,48)	CHIP TRANSISTOR	2SA1514K
	Q 5404(A,131,62)	TRANSISTOR	2SA1145
	Q 5405(A,108,55)	TRANSISTOR	2SC2705
	Q 5441(B,91,45)	CHIP TR	2SA1255
	Q 5501(B,275,38)	CHIP TRANSISTOR	2SD2704K
	Q 5502(B,266,52)	TRANSISTOR	IMT4
	Q 5503(B,277,48)	CHIP TRANSISTOR	2SA1514K
	Q 5504(A,274,63)	TRANSISTOR	2SA1145
	Q 5505(A,252,55)	TRANSISTOR	2SC2705
	Q 5541(B,239,49)	CHIP TR	2SA1255
	Q 5571(B,223,38)	TRANSISTOR	2SC4081
	Q 5572(B,220,38)	TRANSISTOR	2SC4081
	D 5301(B,191,58)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5302(B,188,58)	DIODE	1SS355
	D 5303(B,180,62)	DIODE	1SS355
	D 5304(B,173,62)	DIODE	1SS355
	D 5305(B,177,62)	DIODE	UDZS4R7(B)
	D 5306(B,175,62)	DIODE	UDZS4R7(B)
	D 5341(B,151,71)	DIODE	1SS355
	D 5342(B,149,71)	DIODE	1SS355
	D 5343(B,150,50)	DIODE	1SS355
	D 5344(B,153,71)	DIODE	1SS355
	D 5401(B,137,58)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5402(B,135,58)	DIODE	1SS355
	D 5403(B,126,62)	DIODE	1SS355
	D 5404(B,119,62)	DIODE	1SS355
	D 5405(B,124,62)	DIODE	UDZS4R7(B)
	D 5406(B,122,62)	DIODE	UDZS4R7(B)
	D 5441(B,95,58)	DIODE	1SS355
	D 5442(B,92,58)	DIODE	1SS355
	D 5443(B,94,41)	DIODE	1SS355
	D 5444(B,97,58)	DIODE	1SS355
	D 5501(B,280,59)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5502(B,277,59)	DIODE	1SS355
	D 5503(B,267,62)	DIODE	1SS355
	D 5504(B,261,62)	DIODE	1SS355
	D 5505(B,265,62)	DIODE	UDZS4R7(B)
	D 5506(B,263,62)	DIODE	UDZS4R7(B)
	D 5541(B,240,71)	DIODE	1SS355
	D 5542(B,238,71)	DIODE	1SS355
	D 5543(B,240,45)	DIODE	1SS355
	D 5544(B,242,73)	DIODE	1SS355
	CN5301(A,319,31)	13P SOCKET	XKP3077
	CN5302(A,85,45)	11P SOCKET	XKP3076
	CN5303(A,312,68)	PLUG 6-P	KM250NA6L
	CN5304(A,143,23)	CONNECTOR POST	B2B-PH
	5002(A,236,21)	PCB BINDER	VEF1040

RESISTORS

	R 5301(B,192,43)		RS1/16S102J
	R 5302(B,180,42)		RS1/16S221J
	R 5303(B,177,41)		RS1/16S333J
	R 5304(B,192,40)		RS1/16S103J
	R 5305(B,170,55)		RS1/16S152J
	R 5306(B,168,47)		RS1/16S821J
	R 5307(B,190,48)		RS1/16S2001F
	R 5308(B,179,54)		RS1/16S682J
	R 5309(A,183,48)	CARBON FILM RESISTOR	RD1/2VM473J
	R 5310(B,191,62)		RS1/16S151J
	R 5311(B,188,62)		RN1/16SE1201D
	R 5312(B,162,51)		RS1/16S221J
	R 5313(B,183,97)	CHIP RESISTOR	RS1/16S62R0F
	R 5321(B,190,93)		RS1/16S101J
	R 5322(B,176,93)		RS1/16S101J
⚠	R 5323(A,196,79)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5324(A,161,70)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠	R 5325(B,203,91)	CHIP RESISTOR	ACN7132
⚠	R 5326(B,166,91)	CHIP RESISTOR	ACN7132
⚠	R 5327(A,172,80)	RESISTOR (0.18, 5W)	ACN7121
	R 5329(B,168,44)		RN1/10SE3302D
	R 5330(B,173,45)		RN1/16SE1001D
	R 5331(B,173,43)		RN1/16SE1500D
	R 5332(B,160,51)		RS1/16S151J
	R 5341(B,150,75)		RS1/16S473J
	R 5342(B,148,75)		RS1/16S223J
	R 5343(B,153,75)		RS1/16S471J
	R 5344(B,146,75)		RS1/16S471J
	R 5345(B,152,65)		RS1/16S472J
	R 5346(B,149,65)		RS1/16S472J
	R 5347(B,145,62)		RS1/16S122J
	R 5348(B,148,61)		RS1/16S154J
	R 5349(B,150,61)		RS1/16S103J
	R 5350(B,150,55)		RS1/16S103J
	R 5401(B,139,43)		RS1/16S102J
	R 5402(B,126,42)		RS1/16S221J
	R 5403(B,123,41)		RS1/16S333J
	R 5404(B,139,40)		RS1/16S103J
	R 5405(B,116,55)		RS1/16S152J
	R 5406(B,114,47)		RS1/16S821J

Mark	No.	Description	Part No.
R	5407(B,137,48)		RS1/16S2001F
R	5408(B,126,54)		RS1/16S682J
R	5409(A,129,48)	CARBON FILM RESISTOR	RD1/2VM473J
R	5410(B,137,62)		RS1/16S151J
R	5411(B,135,62)		RN1/16SE1201D
R	5412(B,109,51)		RS1/16S221J
R	5413(B,115,97)	CHIP RESISTOR	RS1/16S62R0F
R	5421(B,128,93)		RS1/16S101J
R	5422(B,108,93)		RS1/16S101J
⚠R	5423(A,138,80)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠R	5424(A,107,70)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠R	5425(B,135,91)	CHIP RESISTOR	ACN7132
⚠R	5426(B,99,91)	CHIP RESISTOR	ACN7132
⚠R	5427(A,114,80)	RESISTOR (0.18, 5W)	ACN7121
R	5429(B,114,44)		RN1/10SE3302D
R	5430(B,119,45)		RN1/16SE1001D
R	5431(B,119,43)		RN1/16SE1500D
R	5432(B,106,51)		RS1/16S151J
R	5441(B,95,63)		RS1/16S473J
R	5442(B,93,63)		RS1/16S223J
R	5443(B,97,63)		RS1/16S471J
R	5444(B,91,63)		RS1/16S471J
R	5445(B,96,54)		RS1/16S472J
R	5446(B,92,54)		RS1/16S472J
R	5447(B,88,49)		RS1/16S122J
R	5448(B,94,50)		RS1/16S154J
R	5449(B,96,50)		RS1/16S103J
R	5450(B,96,46)		RS1/16S103J
R	5501(B,283,44)		RS1/16S102J
R	5502(B,270,42)		RS1/16S221J
R	5503(B,267,41)		RS1/16S333J
R	5504(B,283,40)		RS1/16S103J
R	5505(B,260,55)		RS1/16S152J
R	5506(B,258,47)		RS1/16S821J
R	5507(B,281,48)		RS1/16S2001F
R	5508(B,270,54)		RS1/16S682J
R	5509(A,273,48)	CARBON FILM RESISTOR	RD1/2VM473J
R	5510(B,280,63)		RS1/16S151J
R	5511(B,277,63)		RN1/16SE1201D
R	5512(B,253,51)		RS1/16S221J
R	5513(B,257,97)	CHIP RESISTOR	RS1/16S62R0F
R	5521(B,268,94)		RS1/16S101J
R	5522(B,251,93)		RS1/16S101J
⚠R	5523(A,280,82)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠R	5524(A,250,70)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠R	5525(B,277,91)	CHIP RESISTOR	ACN7132
⚠R	5526(B,241,91)	CHIP RESISTOR	ACN7132
⚠R	5527(A,256,80)	RESISTOR (0.18, 5W)	ACN7121
R	5529(B,258,44)		RN1/10SE3302D
R	5530(B,263,45)		RN1/16SE1001D
R	5531(B,263,43)		RN1/16SE1500D
R	5532(B,250,51)		RS1/16S151J
R	5541(B,241,77)		RS1/16S473J
R	5542(B,235,77)		RS1/16S223J
R	5543(B,239,77)		RS1/16S471J
R	5544(B,237,77)		RS1/16S471J
R	5545(B,240,64)		RS1/16S472J
R	5546(B,238,64)		RS1/16S472J
R	5547(B,238,57)		RS1/16S122J
R	5548(B,235,68)		RS1/16S154J
R	5549(B,236,64)		RS1/16S103J
R	5550(B,242,46)		RS1/16S103J
R	5571(B,226,38)		RS1/16S472J
⚠R	5592(B,301,91)	CHIP RESISTOR	ACN7132
R	5622(B,311,93)		RS1/16S101J

CAPACITORS

C	5301(A,183,43)		CEAT4R7M50
C	5302(B,177,43)		CCSRCH221J50
C	5304(B,167,51)		CKSRYB102K50
C	5307(A,195,53)		CEAT101M10
C	5308(B,164,51)	CAPACITOR (CERAMIC)	ACG7057
C	5309(A,179,58)	ELECT. CAPACITOR	CEAT100M2A
C	5311(B,197,104)	CAPACITOR (CERAMIC)	ACG7056
C	5312(B,170,104)	CAPACITOR (CERAMIC)	ACG7056
C	5315(B,168,41)		CCSRCH220J50
C	5316(B,168,39)		CCSRCH220J50
C	5317(A,172,39)		CEAT331M10
C	5323(A,190,66)		CEAT100M63
C	5324(A,165,62)		CEAT100M63
C	5332(B,162,47)		CKSRYB224K16
C	5341(A,145,66)		CEANP2R2M50
C	5351(A,226,68)	ELECT. CAPACITOR	CEAT100M2A
C	5352(A,222,62)	ELECT. CAPACITOR	CEAT100M2A
C	5401(A,129,43)		CEAT4R7M50
C	5402(B,123,43)		CCSRCH221J50
C	5404(B,113,51)		CKSRYB102K50
C	5407(A,141,53)		CEAT101M10
C	5408(B,111,51)	CAPACITOR (CERAMIC)	ACG7057
C	5409(A,125,58)	ELECT. CAPACITOR	CEAT100M2A
C	5411(B,130,104)	CAPACITOR (CERAMIC)	ACG7056
C	5412(B,101,104)	CAPACITOR (CERAMIC)	ACG7056
C	5415(B,114,41)		CCSRCH220J50
C	5416(B,114,39)		CCSRCH220J50
C	5417(A,119,39)		CEAT331M10
C	5423(A,137,66)		CEAT100M63
C	5424(A,111,62)		CEAT100M63
C	5432(B,108,47)		CKSRYB224K16
C	5441(A,88,53)		CEANP2R2M50
C	5501(A,273,43)		CEAT4R7M50
C	5502(B,267,43)		CCSRCH221J50
C	5504(B,257,51)		CKSRYB102K50
C	5507(A,284,54)		CEAT101M10
C	5508(B,255,51)	CAPACITOR (CERAMIC)	ACG7057
C	5509(A,267,58)	ELECT. CAPACITOR	CEAT100M2A
C	5511(B,271,104)	CAPACITOR (CERAMIC)	ACG7056
C	5512(B,243,104)	CAPACITOR (CERAMIC)	ACG7056
C	5515(B,258,41)		CCSRCH220J50
C	5516(B,258,39)		CCSRCH220J50
C	5517(A,263,39)		CEAT331M10
C	5523(A,289,64)		CEAT100M63
C	5524(A,254,62)		CEAT100M63
C	5532(B,252,47)		CKSRYB224K16
C	5541(A,238,54)		CEANP2R2M50
C	5571(A,229,35)		CEAT331M10
C	5612(B,307,104)	CAPACITOR (CERAMIC)	ACG7056

Mark	No.	Description	Part No.

AH POSI 1-R ASSY

MISCELLANEOUS

⚠	TH4503(A,54,235)	POSISTOR	PTFM04BH222Q2N34B0
J	4551(A,66,232)	CONNECTOR ASSY	PG02KS-E07

AI POWER AMP IN ASSY

MISCELLANEOUS

Q	5601(B,58,86)	CHIP TRANSISTOR	2SD2704K
Q	5602(B,46,41)	TRANSISTOR	IMT4
Q	5603(B,42,54)	CHIP TRANSISTOR	2SA1514K
Q	5604(A,32,55)	TRANSISTOR	2SA1145
Q	5605(A,33,38)	TRANSISTOR	2SC2705
Q	5641(B,11,26)	CHIP TR	2SA1255
D	5601(B,35,57)	CHIP ZENER DIODE	UDZS3R6(B)
D	5602(B,35,53)	DIODE	1SS355
D	5603(B,26,49)	DIODE	1SS355
D	5604(B,23,44)	DIODE	1SS355
D	5605(B,23,47)	DIODE	UDZS4R7(B)
D	5606(B,21,42)	DIODE	UDZS4R7(B)
D	5641(B,18,23)	DIODE	1SS355
D	5642(B,20,23)	DIODE	1SS355
D	5643(B,13,21)	DIODE	1SS355
D	5644(B,28,23)	DIODE	1SS355
CN	5601(A,71,64)	13P PLUG	XKP3066
CN	5602(A,56,31)	13P PLUG	XKP3066
CN	5603(A,76,131)	19P CONNECTOR	52044-1945
CN	5605(A,47,65)	SOCKET 6-P	KP250NA6
CN	5606(A,34,31)	SOCKET 6-P	KP250NA6
	5604(A,7,50)	5P CABLE HOLDER	51048-0500

RESISTORS

R	5601(B,58,93)		RS1/16S102J
R	5602(B,54,41)		RS1/16S221J
R	5603(B,52,41)		RS1/16S333J
R	5604(B,57,82)		RS1/16S103J
R	5605(B,46,36)		RS1/16S152J
R	5606(B,41,38)		RS1/16S821J
R	5607(B,42,59)		RS1/16S2001F
R	5608(B,42,42)		RS1/16S682J
R	5609(A,32,46)	CARBON FILM RESISTOR	RD1/2VM473J
R	5610(B,30,59)		RS1/16S151J
R	5611(B,33,59)		RN1/16SE1201D
R	5612(B,33,34)		RS1/16S221J
⚠R	5623(A,65,58)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠R	5624(A,65,40)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠R	5627(A,19,56)	RESISTOR (0.18, 5W)	ACN7121
R	5629(B,47,48)		RN1/10SE3302D
R	5630(B,49,46)		RN1/16SE1001D
R	5631(B,49,51)		RN1/16SE1500D
R	5632(B,30,36)		RS1/16S151J
R	5641(B,14,43)		RS1/16S473J
R	5642(B,17,33)		RS1/16S223J
R	5643(B,14,33)		RS1/16S471J
R	5644(B,15,38)		RS1/16S471J
R	5645(B,18,28)		RS1/16S472J
R	5646(B,20,28)		RS1/16S472J
R	5647(B,10,33)		RS1/16S122J
R	5648(B,45,25)		RS1/16S154J
R	5649(B,49,26)		RS1/16S103J
R	5650(B,51,26)		RS1/16S103J

CAPACITORS

C	5601(A,53,45)		CEAT4R7M50
C	5602(B,50,41)		CCSRCH221J50
C	5604(B,44,36)		CKSRYB102K50
C	5607(A,38,57)		CEAT101M10

AJ POWER PROTECT ASSY

MISCELLANEOUS

IC	5701(B,19,110)	OP-AMP IC	BA4560RF
Q	5701(B,26,161)	TRANSISTOR	RT1N241M
Q	5702(B,16,161)	DIGITAL TR (SC-70)	RT1P241M
Q	5703(B,16,151)	TRANSISTOR	RT1N241M
Q	5704(B,33,100)	TRANSISTOR	2SC4081
Q	5705(B,23,161)	TRANSISTOR	RT1N241M
Q	5706(B,12,161)	DIGITAL TR (SC-70)	RT1P241M
D	5701(B,23,94)	DIODE	1SS355
D	5702(B,30,205)	DIODE	1SS355
CN	5701(A,28,171)	11P PLUG	XKP3065
CN	5702(A,15,138)	11P PLUG	XKP3065
CN	5703(A,8,85)	19P CONNECTOR	52044-1945
CN	5704(A,37,83)	CONNECTOR	S5B-PH
CN	5705(A,30,223)	17P CONNECTOR	52044-1745
CN	5706(A,38,222)	3PIN CONNECTOR	S3B-EH

RESISTORS

R	5701(B,23,151)		RS1/16S562J
R	5702(B,21,151)		RS1/16S562J
R	5703(B,10,181)		RS1/16S473J
R	5705(B,18,187)		RS1/16S0R0J
R	5706(B,19,151)		RS1/16S822J
R	5707(B,18,181)		RS1/16S473J
R	5708(B,13,187)		RS1/16S0R0J
R	5710(B,17,118)		RS1/16S223J
R	5711(B,13,112)		RS1/16S103J
R	5712(B,13,108)		RS1/16S472J
R	5713(B,23,106)		RS1/16S103J
R	5714(B,24,131)		RS1/16S102J
R	5715(B,27,101)		RS1/16S473J
R	5716(B,29,101)		RS1/16S472J
R	5717(B,33,95)		RS1/16S103J
R	5718(B,30,210)		RS1/16S104J
R	5720(B,31,95)		RS1/16S103J
R	5721(B,29,95)		RS1/16S683J
R	5746(B,20,181)		RS1/16S0R0J
R	5747(B,18,161)		RS1/16S0R0J
R	5750(B,35,95)		RS1/16S0R0J
R	5751(B,26,131)		RS1/16S0R0J
R	5752(B,25,101)		RS1/16S0R0J

CAPACITORS

C	5701(B,13,181)		CKSRYB104K50
C	5702(B,15,181)		CKSRYB104K50
C	5703(B,23,110)		CKSRYB103K50
C	5704(B,23,114)		CKSRYB103K50
C	5705(B,31,101)		CKSRYB223K50

Mark	No.	Description	Part No.
	C 5706	(B,37,217)	CKSRYB103K50

AK HDMI & DVC ASSY

MISCELLANEOUS

	IC 101	(A,35,50) HDMI/DVI CABLE EQ	CXB1441R
	IC 102	(A,43,33) LOGIC IC	SN74CBT3257CPW
	IC 401	(A,60,35) VIDEO DECODER	ADV7184BSTZ
	IC 402	(A,76,29) IC	TC7WU04FU
	IC 701	(A,86,36) VIDEO ENCODER IC	ADV7172KSTZ
⚠	IC 901	(A,99,18) REGULATOR IC	NJM2845DL1-33
⚠	IC 902	(A,79,13) REGULATOR IC	MM1561JF
	Q 101	(A,46,65) CHIP TRANSISTOR	2SB1689
	Q 102	(A,45,58) DIGITAL TRANSISTOR	DTC143EUA
	Q 103	(A,39,61) DIGITAL TR (SC-70)	RT1P241M
	Q 104	(A,33,68) TRANSISTOR	RT1N241M
	Q 121	(A,42,39) TRANSISTOR	RT1N241M
	Q 131	(A,38,19) CHIP TRANSISTOR	2SB1689
	Q 132	(A,38,22) CHIP TRANSISTOR	2SB1689
	Q 133	(A,47,21) DIGITAL TRANSISTOR	DTC143EUA
	Q 134	(A,43,27) DIGITAL TRANSISTOR	DTC143EUA
	Q 151	(A,22,70) TRANSISTOR	RT1N241M
	Q 152	(A,18,51) TRANSISTOR	RT1N241M
	Q 153	(A,31,72) DIGITAL TR (SC-70)	RT1P241M
	Q 154	(A,22,48) DIGITAL TR (SC-70)	RT1P241M
	Q 155	(A,29,69) TRANSISTOR	RT1N241M
	Q 156	(A,22,51) TRANSISTOR	RT1N241M
	Q 451	(A,100,55) CHIP TRANSISTOR	HN1C01FU
	Q 731	(A,75,58) TRANSISTOR	2SA1576A
	Q 741	(A,78,53) TRANSISTOR	2SA1576A
	Q 751	(A,83,58) TRANSISTOR	2SA1576A
	Q 761	(A,86,53) TRANSISTOR	2SA1576A
	Q 771	(A,91,58) TRANSISTOR	2SA1576A
	Q 781	(A,94,53) TRANSISTOR	2SA1576A
	D 381	(A,106,60) DIODE	UDZS5R1(B)
	D 901	(A,85,22) DIODE	1SR154-400
	L 101	(A,44,67) CHIP BEADS	ATL7010
⚠	L 351	(A,24,11) COIL	ATH7022
⚠	L 352	(A,24,15) COIL	ATH7022
⚠	L 353	(A,24,18) COIL	ATH7022
⚠	L 354	(A,24,22) COIL	ATH7022
	L 401	(A,67,16) CHIP BEADS	ATL7010
	L 402	(A,74,41) CHIP BEADS	ATL7010
	L 403	(A,58,16) CHIP BEADS	ATL7010
	L 404	(A,64,62) CHIP BEADS	ATL7010
	L 701	(A,104,46) CHIP BEADS	ATL7010
	L 702	(A,102,46) CHIP BEADS	ATL7010
	L 1001	(A,94,24) CHIP BEADS	ATL7010
	JA101	(A,15,63) HDMI CONNECTOR	AKP7210
	JA102	(A,15,41) HDMI CONNECTOR	AKP7210
	JA301	(A,15,19) HDMI CONNECTOR	AKP7210
	X 401	(A,74,21) CRYSTAL RESONATOR	ASS7069
	CN1001	(A,103,64) 9P SOCKET	XKP3075
	CN1002	(A,69,64) 23P SOCKET	XKP3082
	CN1003	(A,110,21) 9P CONNECTOR	52044-0945

Mark	No.	Description	Part No.

RESISTORS

	R 101	(A,28,44)	RS1/16S102J
	R 102	(A,40,43)	RS1/16S4701F
	R 107	(A,40,57)	RS1/16S101J
	R 108	(A,41,57)	RS1/16S103J
	R 109	(A,41,60)	RS1/16S332J
	R 110	(A,43,60)	RS1/16S682J
	R 111	(A,46,61)	RS1/10S181J
	R 121	(A,39,39)	RS1/16S473J
	R 126	(A,41,16)	RS1/16S0R0J
	R 127	(A,41,15)	RS1/16S0R0J
	R 133	(A,43,18)	RS1/10S331J
	R 134	(A,43,24)	RS1/10S331J
	R 151	(A,28,72)	RS1/16S102J
	R 152	(A,18,53)	RS1/16S102J
	R 351	(A,36,11)	RS1/16S182J
	R 352	(A,34,11)	RS1/16S182J
	R 386	(A,103,61)	RS1/16S473J
	R 389	(A,105,61)	RS1/16S102J
	R 403	(A,57,23) RESISTOR ARRAY	RAB4CQ470J
	R 404	(A,62,23)	RS1/16S470J
	R 411	(A,70,30)	RS1/16S470J
	R 414	(A,76,26)	RS1/16S105J
	R 415	(A,72,26)	RS1/16S101J
	R 416	(A,71,33)	RS1/16S101J
	R 417	(A,72,30)	RS1/16S0R0J
	R 418	(A,73,36)	RS1/16S152J
	R 419	(A,72,36)	RS1/16S201J
	R 421	(A,74,48)	RS1/10S0R0J
	R 422	(A,48,57)	RS1/10S0R0J
	R 431	(A,46,40)	RS1/16S332J
	R 432	(A,49,40)	RS1/16S682J
	R 434	(A,49,38)	RS1/16S470J
	R 435	(A,49,36)	RS1/16S470J
	R 436	(A,49,31) RESISTOR ARRAY	RAB4CQ470J
	R 451	(A,101,51)	RS1/16S103J
	R 452	(A,101,49)	RS1/16S222J
	R 453	(A,104,55)	RS1/16S103J
	R 454	(A,101,48)	RS1/16S222J
	R 702	(A,93,32)	RS1/16S103J
	R 704	(A,95,32)	RS1/16S103J
	R 705	(A,96,32)	RS1/16S103J
	R 706	(A,98,32)	RS1/16S103J
	R 707	(A,95,36)	RS1/16S470J
	R 708	(A,94,38)	RS1/16S470J
	R 709	(A,94,40)	RS1/16S1201F
	R 710	(A,94,41)	RS1/16S1201F
	R 711	(A,77,44)	RS1/16S1201F
	R 712	(A,76,44)	RS1/16S1201F
	R 713	(A,76,40)	RS1/16S470J
	R 714	(A,79,40)	RS1/16S103J
	R 716	(A,77,37)	RS1/16S103J
	R 718	(A,76,37)	RS1/16S103J
	R 719	(A,75,34)	RS1/16S332J
	R 720	(A,76,34)	RS1/16S682J
	R 721	(A,80,31)	RS1/16S470J

Mark	No.		Description	Part No.
	R	731	(A,79,48)	RS1/16S1500F
	R	732	(A,78,50)	RS1/16S0R0J
	R	733	(A,78,60)	RS1/16S102J
A	R	741	(A,82,48)	RS1/16S1500F
	R	742	(A,81,50)	RS1/16S0R0J
	R	743	(A,80,55)	RS1/16S102J
	R	751	(A,86,48)	RS1/16S1500F
	R	752	(A,85,50)	RS1/16S0R0J
	R	753	(A,86,60)	RS1/16S102J
	R	761	(A,89,48)	RS1/16S1500F
	R	762	(A,88,50)	RS1/16S3R3J
	R	763	(A,88,55)	RS1/16S102J
	R	771	(A,93,48)	RS1/16S1500F
	R	772	(A,92,50)	RS1/16S3R3J
B	R	773	(A,94,60)	RS1/16S102J
	R	781	(A,96,48)	RS1/16S1500F
	R	782	(A,95,50)	RS1/16S3R3J
	R	783	(A,96,55)	RS1/16S102J
	R	1001	(A,99,23)	RS1/10S0R0J
	R	1101	(A,99,60)	RS1/10S0R0J
	R	1102	(A,70,60)	RS1/10S0R0J

CAPACITORS

	C	101	(A,28,42)	CKSRYB104K16
C	C	102	(A,40,42)	CKSRYB104K16
	C	103	(A,42,50)	CKSRYB104K16
	C	104	(A,38,66)	CEJQ101M16
	C	105	(A,39,57)	CKSRYB104K16
	C	106	(A,30,57)	CKSRYB104K16
	C	107	(A,28,55)	CKSRYB104K16
	C	108	(A,28,50)	CKSRYB104K16
	C	109	(A,28,45)	CKSRYB104K16
	C	121	(A,39,33)	CKSRYB104K16
	C	191	(A,25,73)	CKSRYB104K16
	C	192	(A,25,74)	CKSRYB102K50
D	C	351	(A,22,26)	CKSRYB104K16
	C	391	(A,23,28)	CKSRYB104K16
	C	392	(A,23,30)	CKSRYB102K50
	C	401	(A,64,11)	CEJQ101M16
	C	402	(A,55,25)	CKSRYB104K16
	C	403	(A,59,25)	CKSRYB104K16
	C	404	(A,63,25)	CKSRYB104K16
	C	405	(A,70,35)	CKSRYB104K16
	C	406	(A,76,24)	CCSRCH7R0D50
	C	407	(A,72,24)	CCSRCH7R0D50
E	C	408	(A,73,29)	CKSRYB104K16
	C	409	(A,72,39) CHIP CAPACITOR	CKSRYB823K25
	C	410	(A,71,39)	CKSRYB103K50
	C	411	(A,71,42)	CKSRYB471K50
	C	412	(A,72,43)	CKSQYB225K10
	C	421	(A,71,49)	CKSRYB104K16
	C	422	(A,69,49)	CKSRYB104K16
	C	423	(A,67,49)	CKSRYB104K16
	C	424	(A,64,49)	CKSRYB102K50
	C	425	(A,64,50)	CKSRYB104K16
	C	426	(A,65,52)	DCH1201
F	C	427	(A,62,50)	CKSRYB104K16
	C	428	(A,61,48)	CKSRYB104K16

Mark	No.		Description	Part No.
	C	429	(A,63,56)	CEJQ101M16
	C	430	(A,56,55)	CKSRYB104K16
	C	431	(A,51,60)	CEJQ100M16
	C	432	(A,59,55)	CKSRYB104K16
	C	433	(A,57,60)	CEJQ100M16
	C	434	(A,56,48)	CKSRYB102K50
	C	435	(A,56,49)	CKSRYB104K16
	C	436	(A,56,51)	DCH1201
	C	437	(A,56,52)	CKSRYB104K16
	C	438	(A,53,47)	CKSRYB104K16
	C	439	(A,53,51)	CKSRYB104K16
	C	440	(A,50,49)	CKSRYB104K16
	C	443	(A,47,40)	CKSRYB103K50
	C	444	(A,52,17)	CEJQ101M16
	C	445	(A,50,34)	CKSRYB104K16
	C	451	(A,101,52)	CCSRCH101J50
	C	452	(A,103,55)	CCSRCH101J50
	C	701	(A,107,39)	CEJQ101M16
	C	702	(A,107,45)	CKSRYB104K16
	C	703	(A,89,29)	CKSRYB104K16
	C	704	(A,93,36)	CKSRYB104K16
	C	705	(A,94,43)	CKSRYB104K16
	C	706	(A,89,45)	CKSRYB104K16
	C	707	(A,86,45)	CKSRYB104K16
	C	708	(A,83,45)	CKSRYB104K16
	C	709	(A,77,46)	CKSRYB104K16
	C	710	(A,100,45)	CKSRYB105K10
	C	711	(A,100,39)	CEJQ101M16
	C	712	(A,79,44)	CKSRYB104K16
	C	713	(A,77,34)	CKSRYB103K50
	C	714	(A,79,34)	CKSRYB104K16
	C	731	(A,74,60)	CKSRYB104K16
	C	741	(A,77,55)	CKSRYB104K16
	C	751	(A,82,60)	CKSRYB104K16
	C	761	(A,85,55)	CKSRYB104K16
	C	771	(A,90,60)	CKSRYB104K16
	C	781	(A,93,55)	CKSRYB104K16
	C	901	(A,92,20)	CKSRYB105K10
	C	902	(A,92,17)	CKSQYB225K10
	C	904	(A,80,17)	CKSRYB105K10
	C	905	(A,77,10)	CKSRYB471K50
	C	906	(A,77,17)	CKSQYB225K10
	C	1001	(A,97,27)	CKSRYB104K16
	C	1002	(A,102,28)	CEJQ101M16

AL USB ASSY

MISCELLANEOUS

	IC	701	(A,37,40) USB MEDIA CONTROL IC	TCC760HC01-AG
⚠	IC	702	(A,63,35) REGULATOR IC	MM1561JF
⚠	IC	703	(A,87,25) REGULATOR IC	BD7802FP
	IC	761	(A,63,46) SD-RAM (64M)	HY57V641620ETP-6
	IC	762	(A,87,46) FLASH ROM	AYW7088
	IC	9762	FLASH MEMORY IC	S29AL016D70TFI010
	IC	771	(A,58,59) LOAD SWITCHING	AAT4618IGV-0.5-1
	IC	781	(A,37,16) AUDIO DAC	AK4387ET
	IC	951	(A,67,28) IC	TC74VHCT08AFTS1
	IC	953	(A,52,25) IC	TC74VHC08FTS1
	Q	782	(B,94,44) CHIP TRANSISTOR	DTC114YUA

Mark No.		Description	Part No.
Q 783	(B,92,38)	TRANSISTOR	2SA1576A
Q 784	(B,87,32)	TRANSISTOR	IMX9
L 701	(B,27,42)	INDUCTOR	LCTC100K1608
L 702	(B,34,33)	CHIP SOLID INDUCTOR	QTL1013
L 703	(A,24,30)	CHIP SOLID INDUCTOR	QTL1013
L 704	(B,53,56)	CHIP SOLID INDUCTOR	QTL1013
L 705	(B,28,38)	CHIP FERRITE BEADS	VTL1169
L 731	(A,28,60)	CHIP FERRITE BEADS	VTL1169
L 733	(A,36,56)	COIL	VTH1043
L 761	(B,78,47)	CHIP SOLID INDUCTOR	QTL1013
L 762	(B,85,44)	CHIP SOLID INDUCTOR	QTL1013
L 781	(B,46,19)	CHIP SOLID INDUCTOR	QTL1013
L 951	(A,59,30)	CHIP SOLID INDUCTOR	QTL1013
L 953	(A,72,37)	CHIP SOLID INDUCTOR	QTL1013
X 701	(A,23,42)	CRYSTAL OSCILLATOR	CSS1614
CN701	(A,33,60)	CONNECTOR	B4B-PH
CN702	(A,87,16)	15P SOCKET	XKP3078

RESISTORS

R 702	(A,43,55)		RS1/16S473J
R 703	(A,38,53)		RS1/16S0R0J
R 704	(A,35,53)		RS1/16S0R0J
R 705	(A,30,54)		RS1/16S470J
R 706	(A,30,52)		RS1/16S470J
R 707	(B,32,48)		RS1/16S470J
R 708	(B,22,51)		RS1/16S470J
R 709	(B,23,41)		RS1/16S0R0J
R 710	(B,35,42)		RS1/16S0R0J
R 711	(B,37,42)		RS1/16S472J
R 712	(A,27,43)		RS1/16S475J
R 717	(A,31,29)		RS1/16S473J
R 718	(A,36,25)		RS1/16S101J
R 719	(A,35,25)		RS1/16S101J
R 720	(A,35,21)		RS1/16S101J
R 724	(A,39,21)		RS1/16S472J
R 725	(A,44,25)		RS1/16S472J
R 726	(A,42,21)		RS1/16S472J
R 727	(A,33,21)		RS1/16S101J
R 729	(B,30,38)		RS1/16S103J
R 730	(B,39,33)		RS1/16S102J
R 734	(A,43,58)		RS1/16S0R0J
R 735	(A,32,55)		RS1/16S153J
R 736	(A,40,55)		RS1/16S153J
R 737	(A,34,55)		RS1/16S100J
R 738	(A,39,55)		RS1/16S100J
R 741	(B,79,23)		RS1/16S101J
R 744	(A,77,20)		RS1/16S101J
R 745	(A,76,21)		RS1/16S101J
R 746	(A,74,20)		RS1/16S101J
R 747	(A,72,20)		RS1/16S101J
R 748	(A,71,20)		RS1/16S101J
R 755	(A,26,45)		RS1/16S0R0J
R 756	(A,26,41)		RS1/16S472J
R 757	(A,43,60)		RS1/16S0R0J
R 771	(A,61,56)		RS1/16S221J
R 772	(A,58,56)		RS1/16S104J
R 773	(A,71,59)		RS1/16S0R0J
R 784	(A,30,21)		RS1/16S470J
R 786	(A,41,21)		RS1/16S470J

Mark No.		Description	Part No.
R 788	(A,44,21)		RS1/16S4R7J
R 789	(A,74,25)		RS1/16S471J
R 790	(A,79,23)		RS1/16S471J
R 791	(B,83,34)		RS1/16S104J
R 792	(B,90,30)		RS1/16S104J
R 793	(B,83,30)		RS1/16S101J
R 794	(B,90,34)		RS1/16S101J
R 795	(A,87,33)		RS1/16S222J
R 796	(A,87,30)		RS1/16S222J
R 797	(B,92,44)		RS1/16S102J
R 798	(B,95,38)		RS1/16S102J
R 799	(B,90,38)		RS1/16S103J
R 951	(B,43,26)		RS1/16S472J
R 952	(A,62,31)		RS1/16S472J
R 966	(A,72,32)		RS1/16S101J
R 972	(A,62,28)		RS1/16S101J
R 973	(A,73,29)		RS1/16S101J
R 977	(A,47,25)		RS1/16S101J
R 978	(A,47,28)		RS1/16S101J
R 979	(B,58,27)		RS1/16S101J
R 980	(B,60,27)		RS1/16S101J

CAPACITORS

C 701	(A,49,36)		CKSRYB104K16
C 702	(A,47,36)		CCSRCH471J50
C 703	(A,49,40)		CKSRYB104K16
C 704	(A,47,40)		CCSRCH471J50
C 705	(A,49,44)		CKSRYB104K16
C 706	(A,47,44)		CCSRCH471J50
C 707	(A,45,51)		CKSRYB104K16
C 708	(A,45,50)		CCSRCH471J50
C 709	(A,30,51)		CKSRYB104K16
C 710	(A,30,50)		CCSRCH471J50
C 711	(B,30,45)		CKSRYB104K16
C 712	(B,27,45)		CCSRCH471J50
C 713	(A,26,46)		CCSRCH120J50
C 714	(A,26,39)		CCSRCH120J50
C 715	(B,26,38)		CKSRYB331K50
C 716	(B,32,33)		CKSRYB104K16
C 717	(B,30,33)		CCSRCH471J50
C 719	(A,25,36)		CCSRCH471J50
C 720	(B,23,30)		CKSRYB104K16
C 721	(A,24,24)		CEJQ101M6R3
C 723	(A,37,27)		CCSRCH471J50
C 724	(A,37,29)		CKSRYB104K16
C 726	(A,34,27)		CKSRYB104K16
C 727	(A,34,29)		CCSRCH471J50
C 728	(A,41,28)		CKSRYB104K16
C 729	(A,41,29)		CCSRCH471J50
C 730	(B,60,34)		CCSRCH471J50
C 731	(A,25,55)		CEJQ101M16
C 732	(B,29,55)		CKSRYB104K16
C 733	(B,29,60)		CKSRYB104K16
C 734	(B,41,32)		CKSRYB103K50
C 735	(B,37,33)		CKSRYB103K50
C 741	(A,92,19)		CEJQ101M16
C 742	(B,96,20)		CKSRYB104K16
C 743	(A,96,32)		CKSRYB105K6R3

Mark	No.	Description	Part No.
C	745	(B,64,35)	CKSRYB105K6R3
C	746	(A,53,32)	CKSQYB225K10
C	761	(B,71,46)	CKSRYB104K16
C	762	(B,73,46)	CCSRCH471J50
C	763	(B,67,46)	CCSRCH471J50
C	764	(B,65,46)	CCSRCH471J50
C	766	(B,52,50)	CCSRCH471J50
C	767	(B,80,44)	CKSRYB104K16
C	768	(B,82,44)	CCSRCH471J50
C	771	(A,62,60)	CKSQYB105K16
C	773	(A,55,60)	CKSRYB104K16
C	781	(A,44,17)	CCSRCH471J50
C	782	(A,45,19)	CKSRYB104K16
C	783	(A,49,19)	CEJQ470M16
C	784	(A,45,16)	CKSRYB104K16
C	786	(A,55,16)	CEJQ100M16
C	788	(A,42,18)	CKSRYB104K16
C	789	(A,77,26)	CKSRYB102K50
C	790	(A,79,25)	CKSRYB102K50
C	791	(A,75,31)	CEJQ100M16
C	792	(A,81,31)	CEJQ100M16
C	951	(A,58,27)	CCSRCH471J50
C	952	(A,59,27)	CKSRYB105K10
C	956	(A,70,34)	CKSQYB105K10
C	957	(A,70,33)	CCSRCH471J50

6. ADJUSTMENT

• There is no information to be shown in this chapter.

7. GENERAL INFORMATION
7.1 DIAGNOSIS
7.1.1 TEST MODE

■ Version indication

[Purpose]

The versions for various microcomputers and DSP firmware are displayed.

[How to enter/exit]

During Standby mode, simultaneously press and hold the STANDBY/ON and SOUND RETRIEVER keys for 5 seconds to enter this mode. This mode is automatically exited when the indications of all versions have finished.

[Basic operations]

FL Display	Description of Version Indications	Duration (sec.)	Devices that can be considered generally normal, with the corresponding indications
POWER OFF ↓ M1.000 F1.000 ↓ PPP.05 ↓ USB 2006. 1. 9 ↓ Normal display	Mx.xxx : Main microcomputer Fx.xxx : Display microcomputer PPP.xx : DSP and HDMI microcomputers USB xxxx.xx.xx : USB firmware	5 5 5	Main microcomputer and display microcomputer DSP microcomputer and HDMI microcomputer USB firmware : Flash ROM (IC762) near the USB IC (IC701)

[Notes]

1. If the version indication becomes "**," a failure in communications between the corresponding microcomputers or a failure in the corresponding microcomputers is likely.
2. In this submode, the user settings will not be cleared.
3. If the USB firmware version indication becomes "**," return the unit to Normal mode, switch Function to USB, then reenter Test mode and check the USB firmware version. If the indication becomes "**" again, communication between the main microcomputer and the USB firmware is in failure.

■ Detected protection history

[Purpose]

The numbers of detections for various protection processes are displayed.

[How to enter/exit]

During Standby mode, simultaneously press and hold the DVR/VCR1 and ENTER keys for 5 seconds to enter this mode. This mode is automatically exited when all the indications have finished.

[Basic operations]

FL Display	Description of Indications	Duration (sec.)
POWER OFF		
↓		
DC : 000	Number of DC detections	3
↓		
OVER: 010	Number of overload detections	3
↓		
CON : 002	Number of detections of cord disconnection (DC and OL DET line) (simultaneous detections of DC and OVERLOAD)	3
↓		
FAN : 002	Number of detections of fan abnormalities	3
↓		
TEMP: 255	Number of detections of abnormal temperature	3
↓		
Normal display		

[Description]

When the keys are pressed, the numbers of DC detections, overload detections, detections of connectors disconnection inside unit (It is detected by both DC and OVERLOAD detections.), detections of fan abnormalities, and detections of abnormal temperature are displayed for 3 seconds each, in that order.
The maximum value of each detections is 255.

■ Error indications when an abnormality in the amplifier system is detected

[Purpose]

An error message is displayed when an abnormality in the amplifier system is detected.

[Error Messages]

FL Display	Status	Duration (sec.)
AMP ERROR	When AMP DC is detected	Flashes 3 times.
FAN STOP	When stopping of the fan is detected	Flashes 3 times.
OVERHEAT	When a thermal shutdown (abnormal temperature), etc. is detected	Flashes 3 times.
12V TRG ERR KUXJ and KUXJCA types only	When the 12-V trigger circuit is short-circuited	Flashes
XM ANT ERR KUXJ and KUXJCA types only	The power supply of the XM antenna is abnormally	Flashes

[Description]

AMP ERROR : After a failure in the amplifier block or high DC output is detected, the shutdown process starts, then the power will be shut off. Then the MCACC LED will flash. The power cannot be turned on again. If you wish to turn on the unit after a shutdown activated by DC detection, enter Test mode, by proceeding with the steps described in "How to enter release mode" below.

FAN STOP : The fan does not function.

OVERHEAT : The temperature of the amplifier is abnormally high.

12V TRG ERR : The 12-V trigger output is short-circuited. (KUXJ and KUXJCA types only)

XM ANT ERR : Thepower supply of the XM antenna is abnormally. (KUXJ and KUXJCA types only)

After a failure is detected, the shutdown process starts, then the power will be off. The power can be turned on again in Normal mode.

[How to enter release mode]

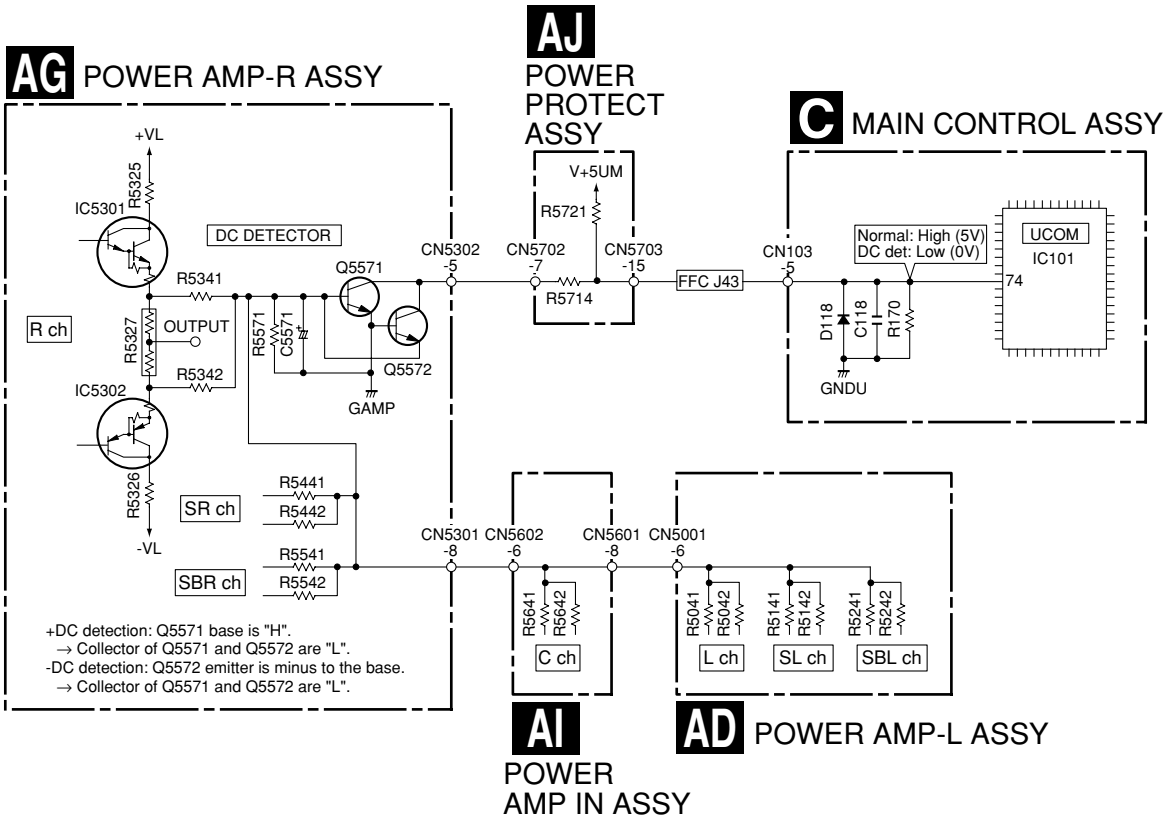
Press and hold DVR/VCR2 and ENTER keys on the front panel simultaneously for 5 seconds in standby mode.

7.1.2 PROTECTION CIRCUIT SPECIFICATION

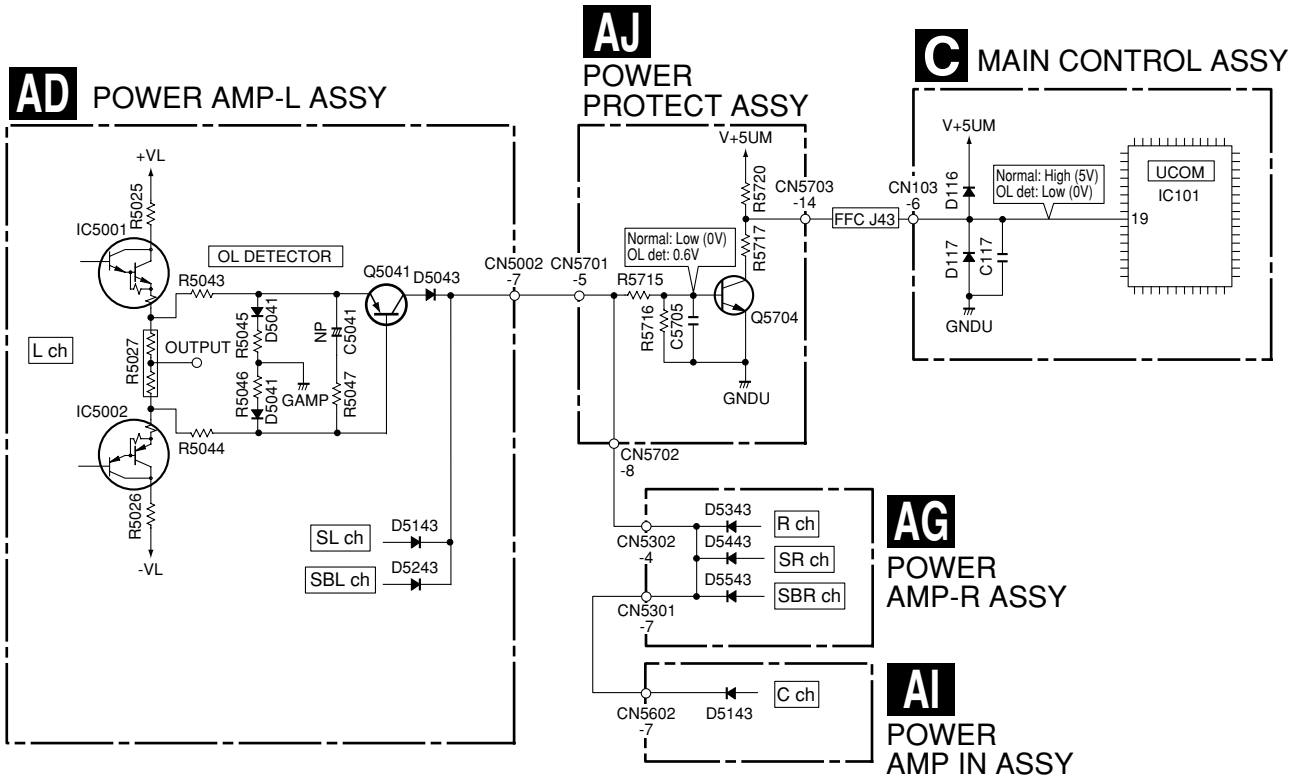
● Protection Circuit Process List

Item	Purpose	Detection Method	Process	Warning Indication	Remarks
DC detection	To detect amplifier damage (defect status) A process to protect speakers (for protection of connected external devices)	Detects when the DC_PROTECT port becomes "L". (Pin 74 of IC101)	Turns muting on and speaker relay off, then turns off the power after 3 seconds. Then flashes MCACC indicator.	Flashing "AMP ERR" for 3 seconds.	Once detected and turned the power off, input a key never again. If the DC_DET port becomes "H" within 3 seconds, the unit returns to normal condition automatically.
AMP overload	To detect overloading (abnormal status) With low-load driving or a short circuit of the speaker terminals (for protection of the amplifier)	Detects when the OL_DET port becomes "L" (checks by interrupt). (Pin 19 of IC101)	Turns muting on and speaker relay off, and immediately turns off the power. Then flashes PHASE CONTROL indicator.	None	
Overheat detection	Self reset type protection feature by temperature-rise of heat sink	Detects when the TEMP2 port becomes "H" . (Pin 44 of IC2301)	Turns muting on and speaker relay off, then turns off the power after 3 seconds.	Flashing "OVERHEAT" for 3 seconds.	If the TEMP2 port becomes "L" within 3 seconds, the unit returns to normal condition automatically.

● DC Detection Circuit



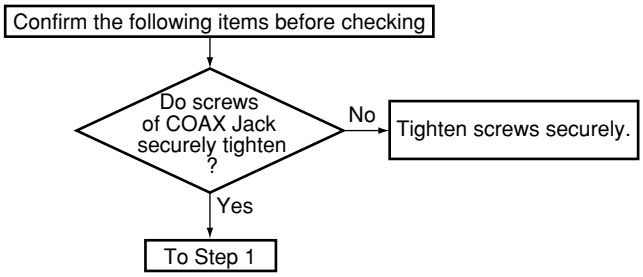
● OL (Over Load) Detection Circuit



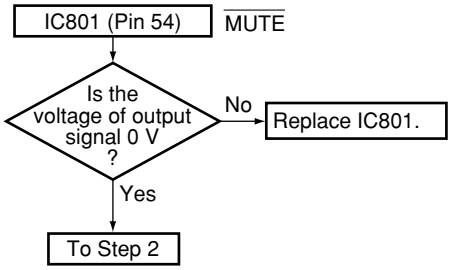
■ Troubleshooting for all destination

- When a sound is not out in the multi-CH signal playback mode or surround mode with the digital signal input. (SurroundBack is not output by setting.)
- Suppose CR to be poor contact and that is not damaged.
- This shows failure analysis of DSP Assy.

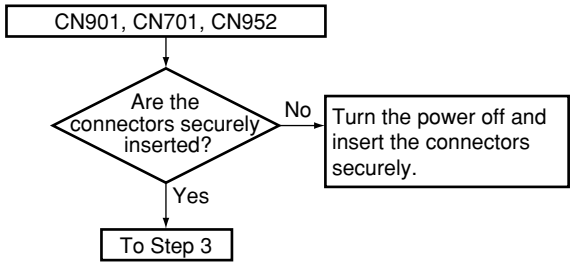
Step 0: Preliminary confirmation



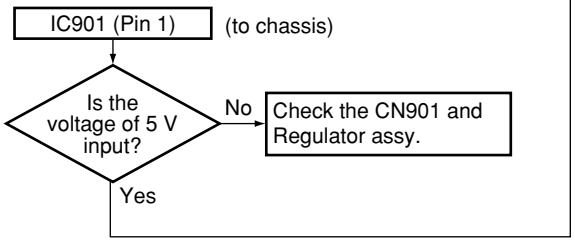
Step 1: MUTE pin

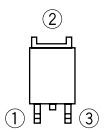


Step 2: BtoB connector

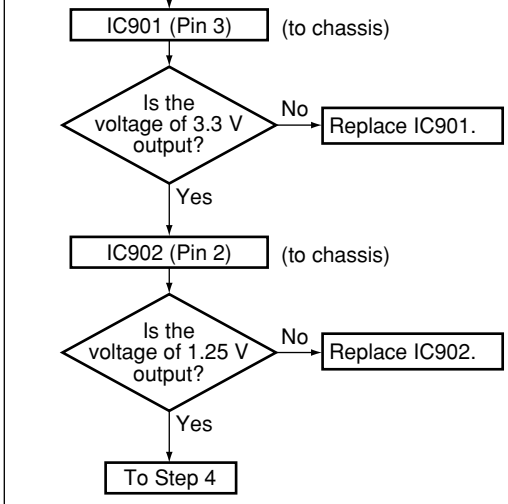


Step 3: Regulator IC

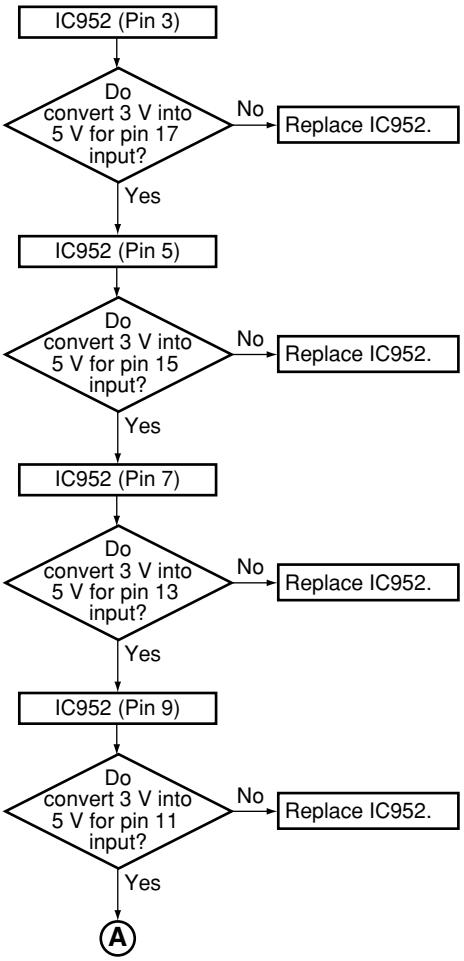


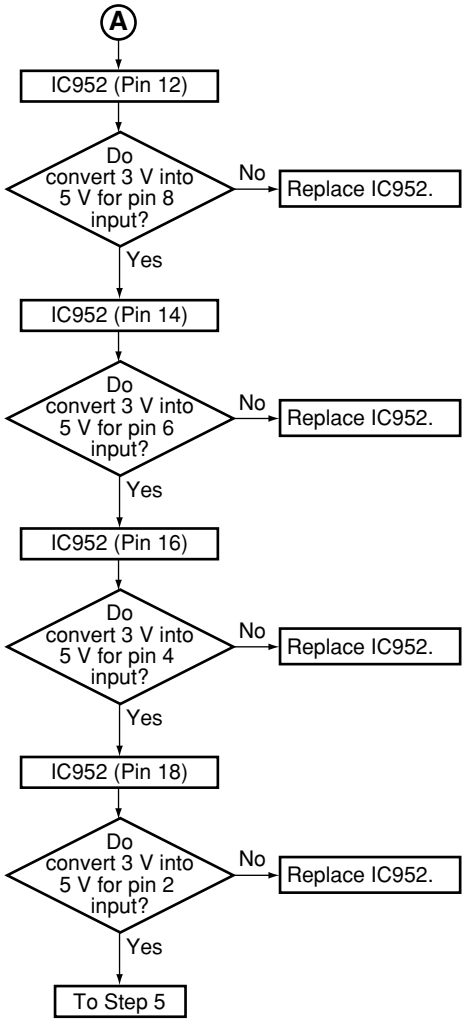


Part shape and Pin arrangement of IC901 and IC902



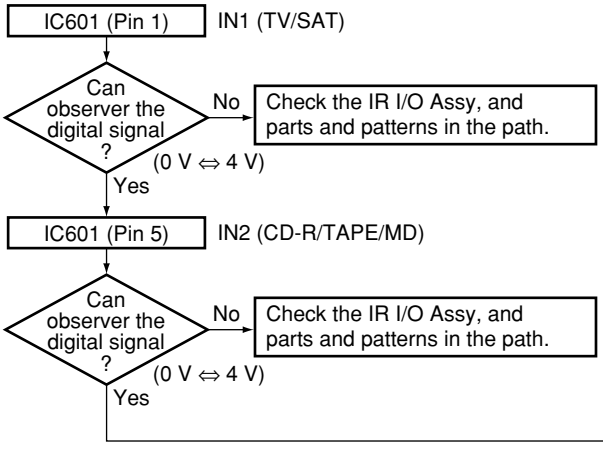
Step 4: 3 V to 5 V conversion

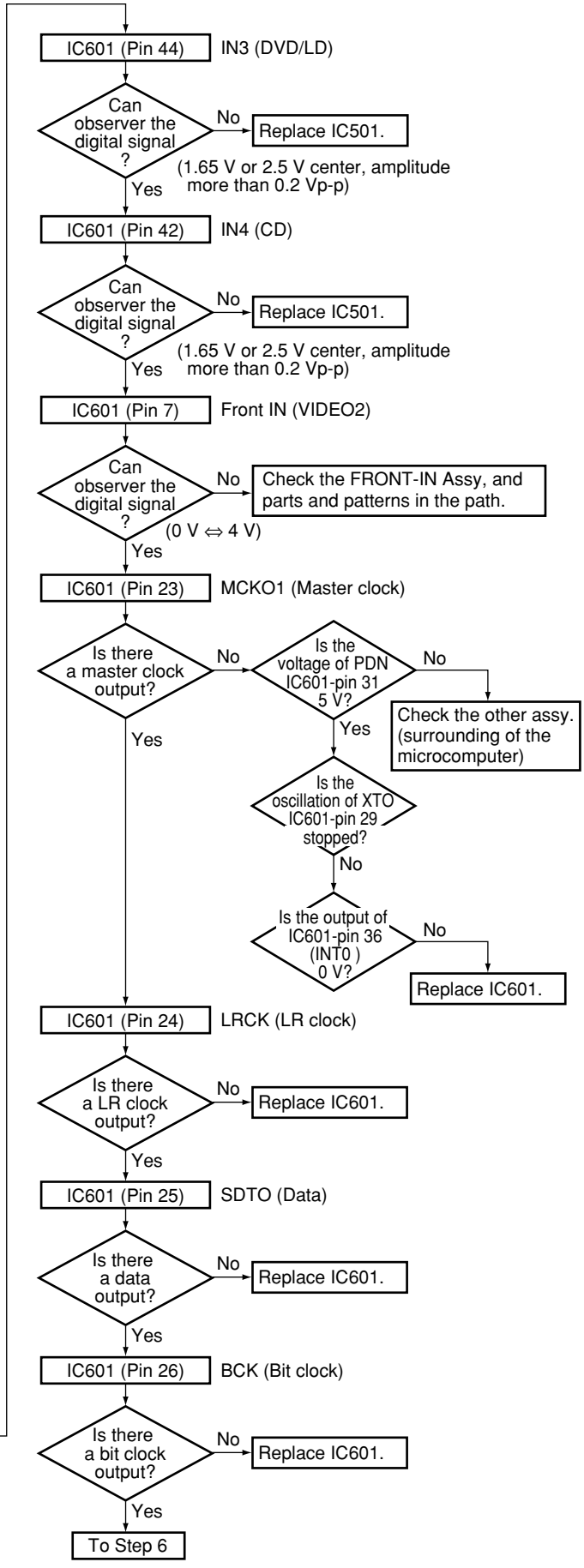




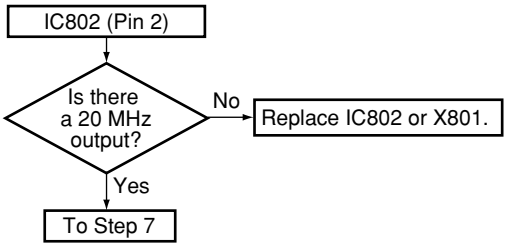
Step 5: DIR

Check that the SPDIF signal is output.
Check that changes by pulling out and inserting the digital input lines.


IC601 (Pin 1)
IN1 (TV/SAT)
Can observer the digital signal ?
No
Check the IR I/O Assy, and parts and patterns in the path.
(0 V ⇔ 4 V)
Yes
IC601 (Pin 5)
IN2 (CD-R/TAPE/MD)
Can observer the digital signal ?
No
Check the IR I/O Assy, and parts and patterns in the path.
(0 V ⇔ 4 V)
Yes

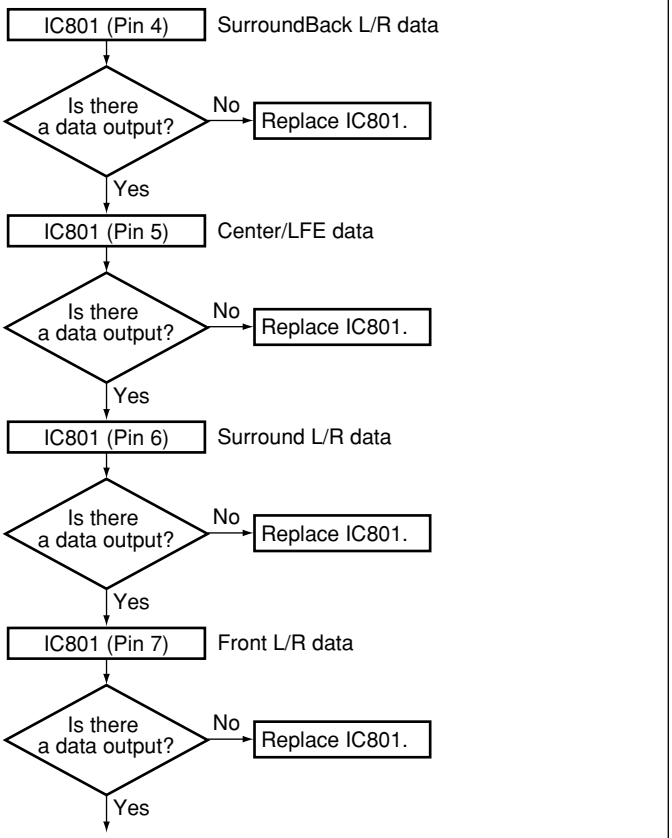


Step 6: X'tal

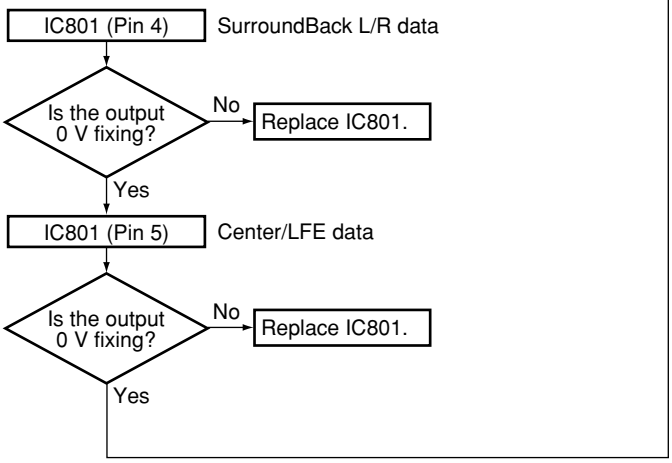


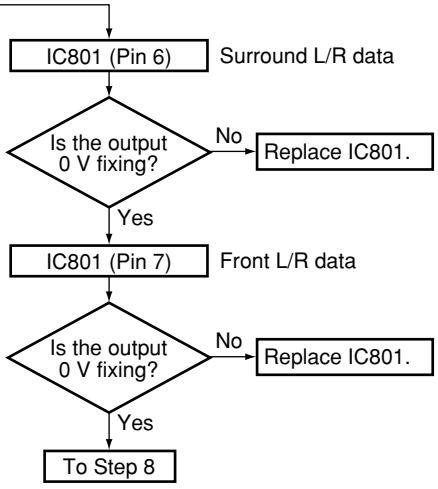
Step 7: DSP output (digital)

Digital output of each CH when inputting the digital signal with audio.



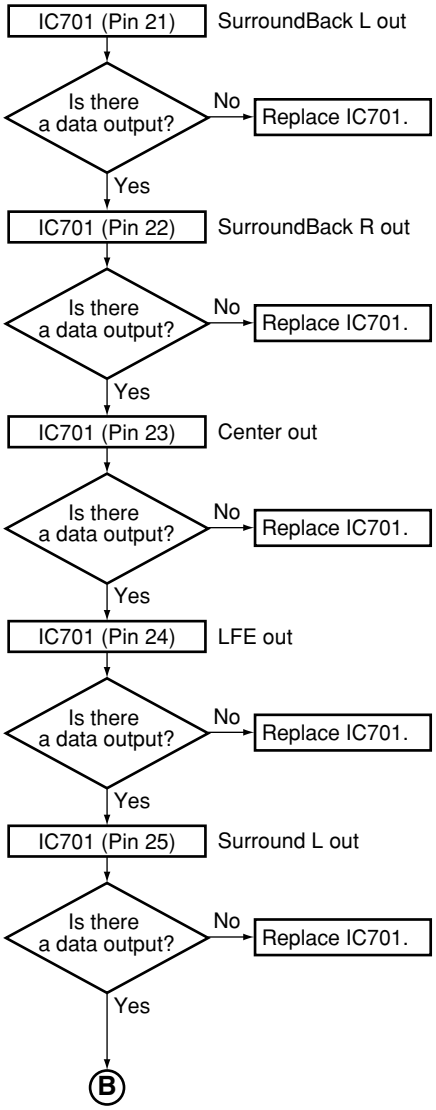
Digital output of each CH when inputting the digital signal (-∞ dB (no audio)).

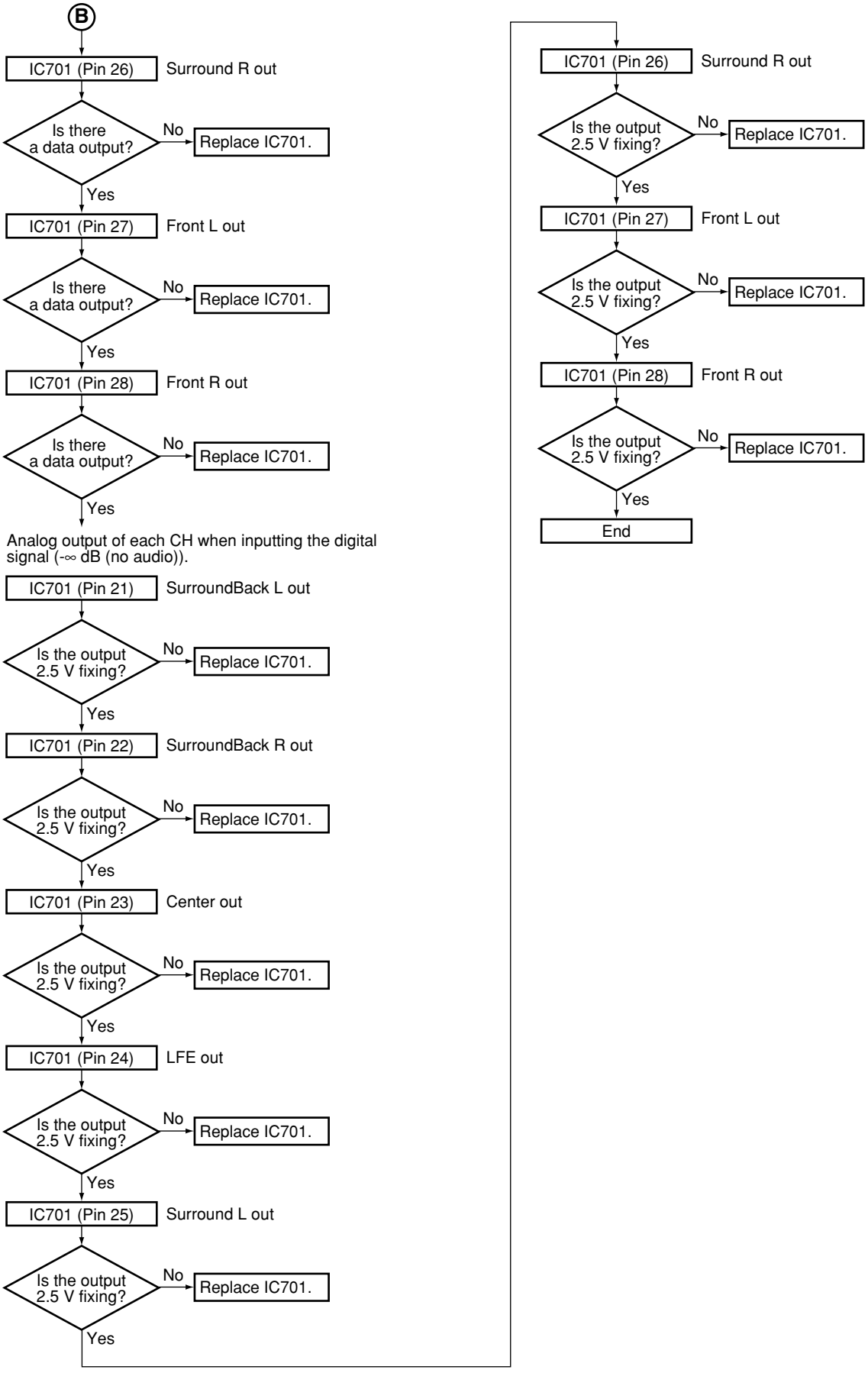




Step 8: Codec output (analog)

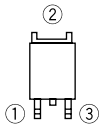
Analog output of each CH when inputting the digital signal with audio.




B
IC701 (Pin 26)
Surround R out
Is there a data output?
No
Replace IC701.
Yes
IC701 (Pin 27)
Front L out
Is there a data output?
No
Replace IC701.
Yes
IC701 (Pin 28)
Front R out
Is there a data output?
No
Replace IC701.
Yes
Analog output of each CH when inputting the digital signal (-∞ dB (no audio)).
IC701 (Pin 21)
SurroundBack L out
Is the output 2.5 V fixing?
No
Replace IC701.
Yes
IC701 (Pin 22)
SurroundBack R out
Is the output 2.5 V fixing?
No
Replace IC701.
Yes
IC701 (Pin 23)
Center out
Is the output 2.5 V fixing?
No
Replace IC701.
Yes
IC701 (Pin 24)
LFE out
Is the output 2.5 V fixing?
No
Replace IC701.
Yes
IC701 (Pin 25)
Surround L out
Is the output 2.5 V fixing?
No
Replace IC701.
Yes
IC701 (Pin 26)
Surround R out
Is the output 2.5 V fixing?
No
Replace IC701.
Yes
IC701 (Pin 27)
Front L out
Is the output 2.5 V fixing?
No
Replace IC701.
Yes
IC701 (Pin 28)
Front R out
Is the output 2.5 V fixing?
No
Replace IC701.
Yes
End

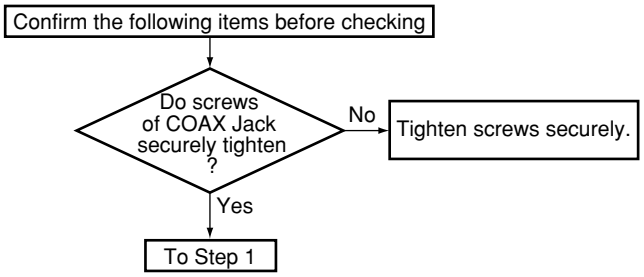
■ Troubleshooting in the XM mode (AWX8699 only)

- When a sound is not output in the XM antenna input.
- Suppose CR to be poor contact and that is not damaged.
- This shows failure analysis of DSP Assy.

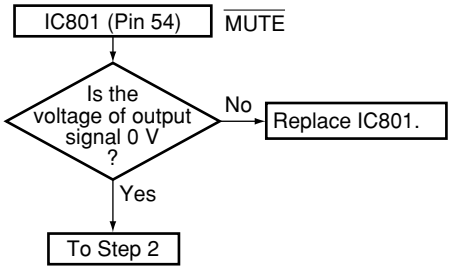


Part shape and Pin arrangement of IC901 and IC902

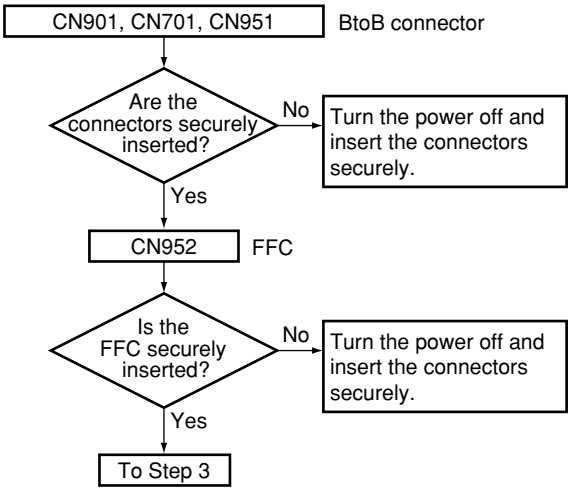
Step 0: Preliminary confirmation



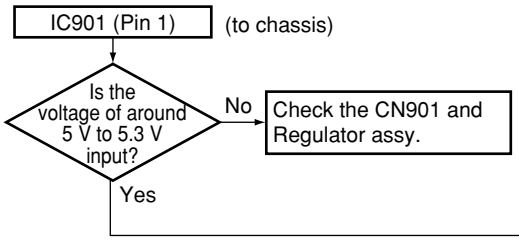
Step 1: MUTE pin

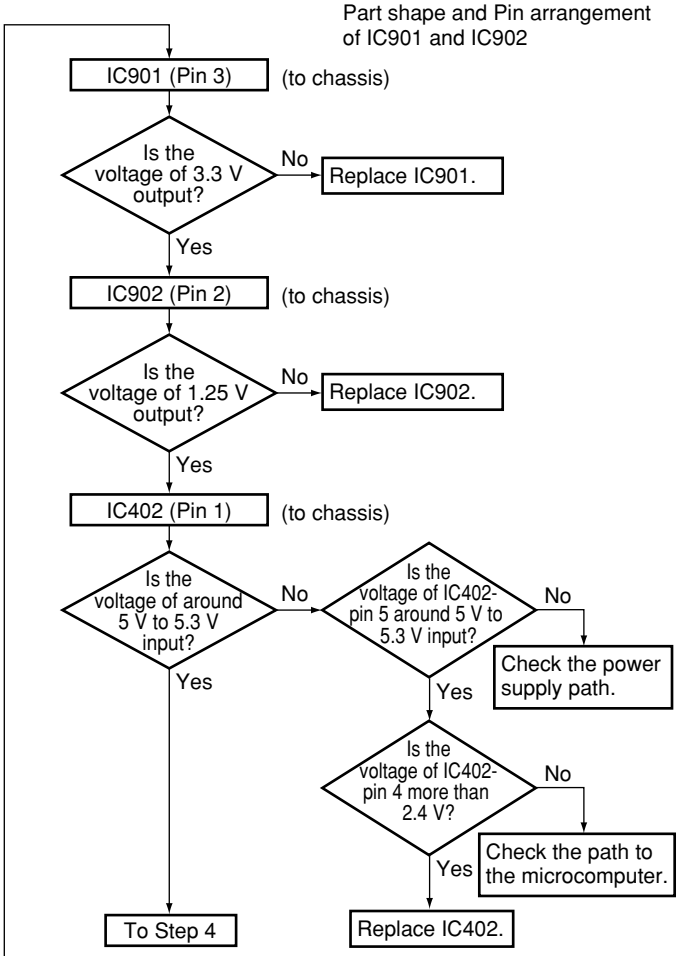


Step 2: BtoB connector and FFC

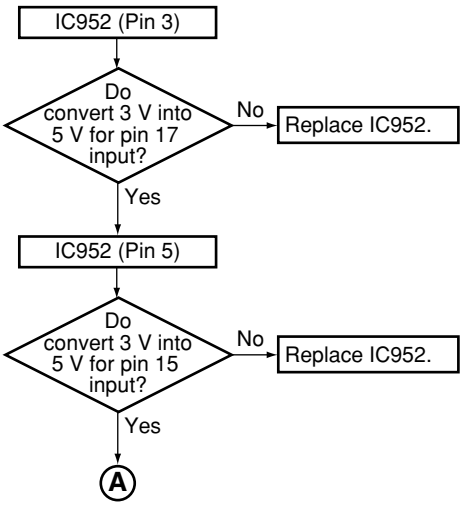


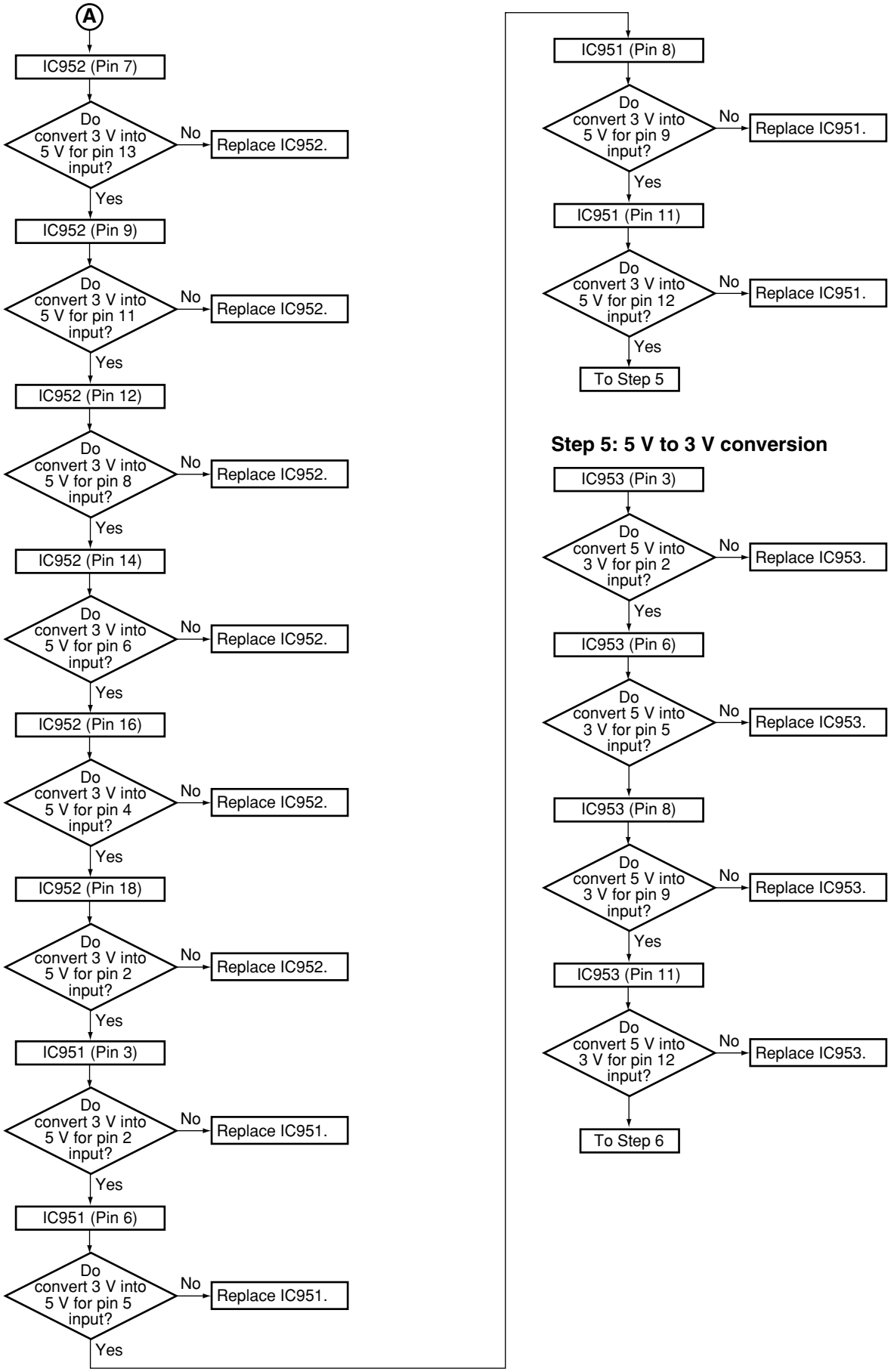
Step 3: Regulator IC





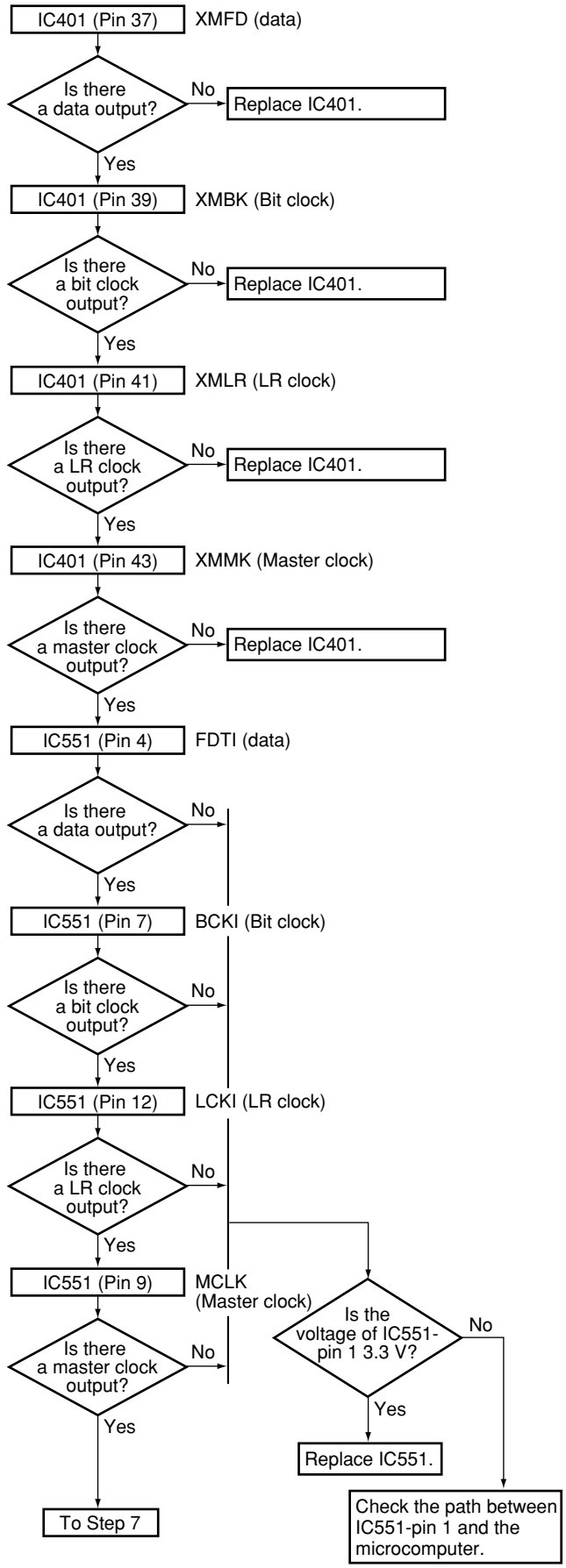
Step 4: 3 V to 5 V conversion



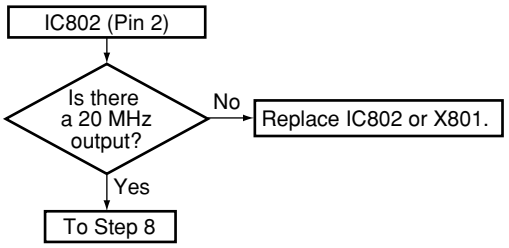


Step 5: 5 V to 3 V conversion

Step 6: XM/DT

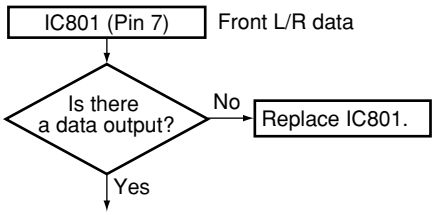


Step 7: X'tal

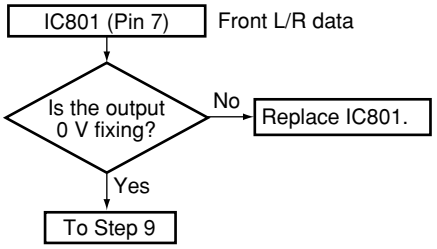


Step 8: DSP output (digital)

Digital output of each CH when receiving the broadcast signal with audio.

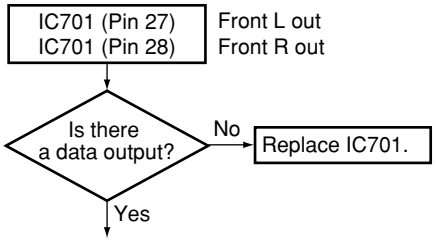


Digital output of each CH when not receiving the broadcast signal (-∞ dB (no audio)).

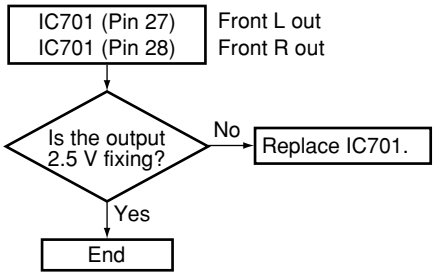


Step 9: Codec output (analog)

Analog output of each CH when inputting the broadcast signal with audio.



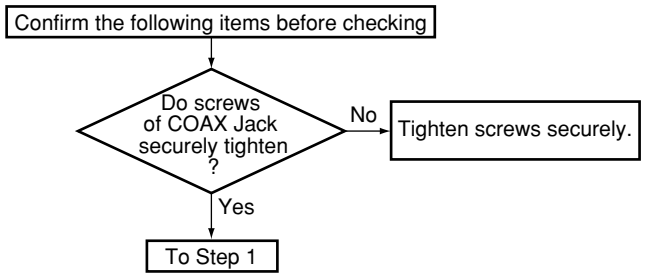
Analog output of each CH when not receiving the broadcast signal (-∞ dB (no audio)).



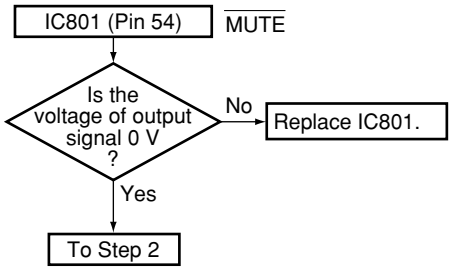
■ Troubleshooting in the MCACC mode (AWX8572 and AWX8699 only)

- When the MCACC mode is turned on (SurroundBack is not output by setting.)
- Suppose CR to be poor contact and that is not damaged.
- This shows failure analysis of DSP Assy.

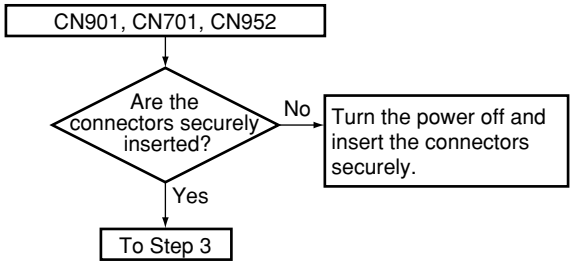
Step 0: Preliminary confirmation



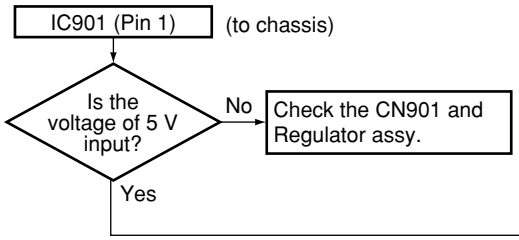
Step 1: MUTE pin

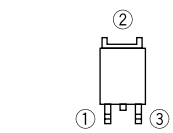


Step 2: BtoB connector

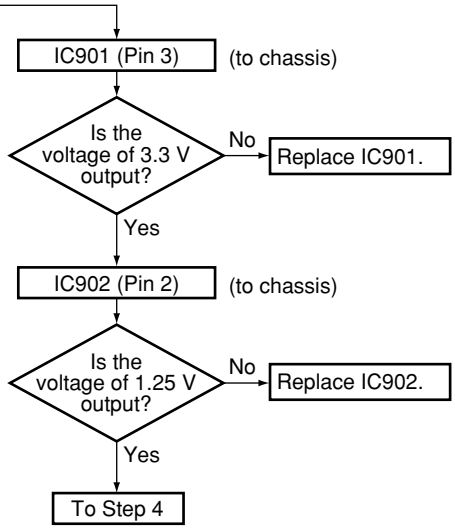


Step 3: Regulator IC

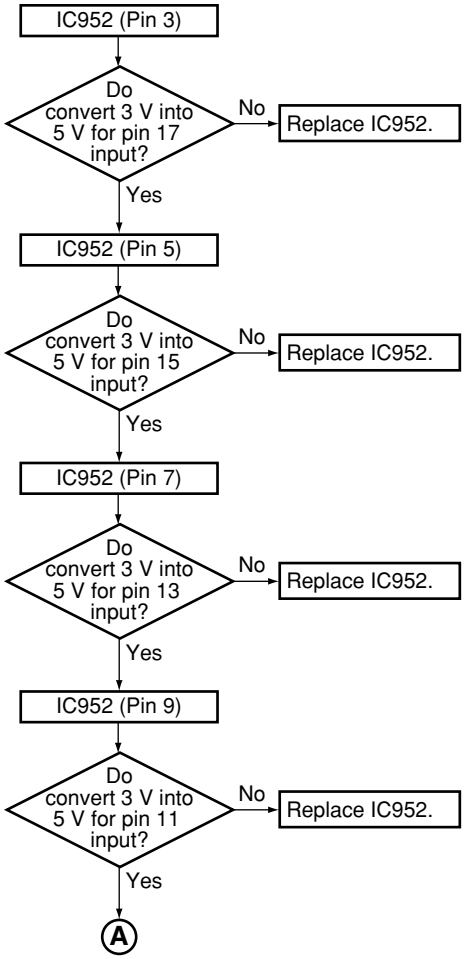


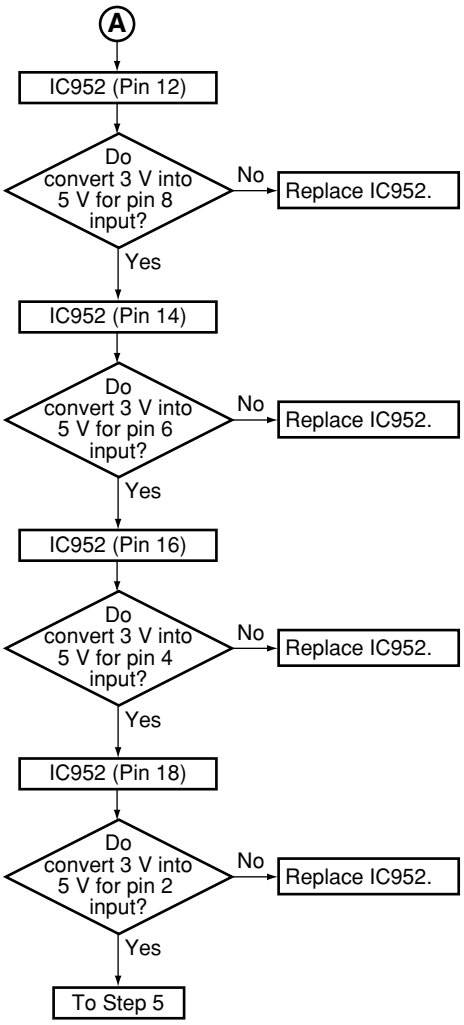


Part shape and Pin arrangement of IC901 and IC902

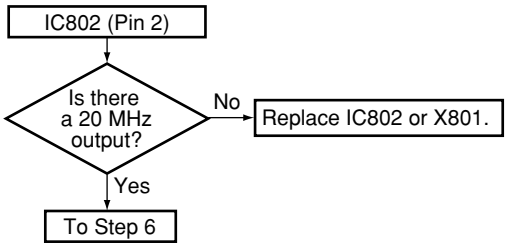


Step 4: 3 V to 5 V conversion

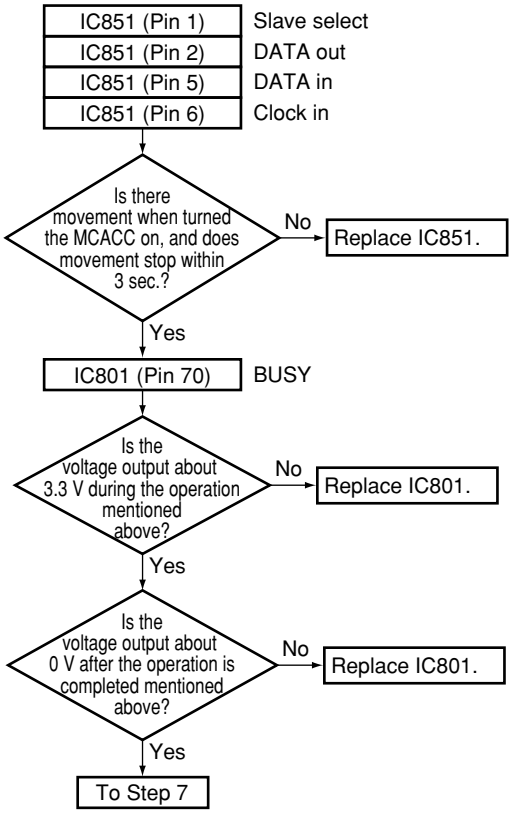




Step 5: X'tal

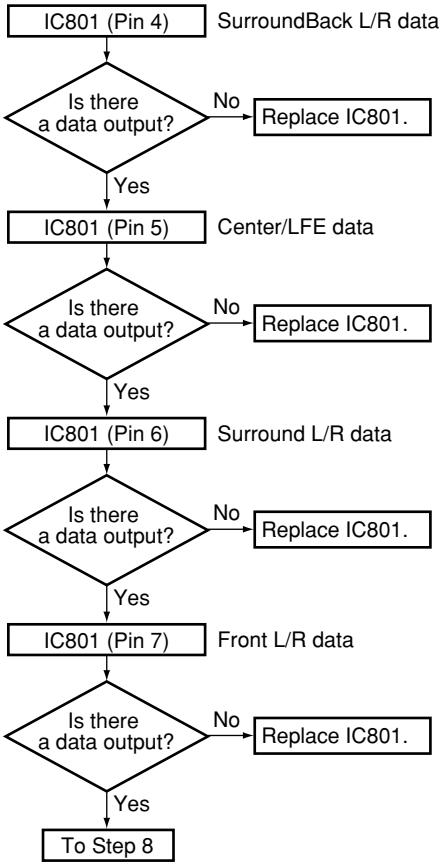


Step 6: ROM


IC851 (Pin 1) Slave select
IC851 (Pin 2) DATA out
IC851 (Pin 5) DATA in
IC851 (Pin 6) Clock in
Is there movement when turned the MCACC on, and does movement stop within 3 sec.?
No
Replace IC851.
Yes
IC801 (Pin 70) BUSY
Is the voltage output about 3.3 V during the operation mentioned above?
No
Replace IC801.
Yes
Is the voltage output about 0 V after the operation is completed mentioned above?
No
Replace IC801.
Yes
To Step 7

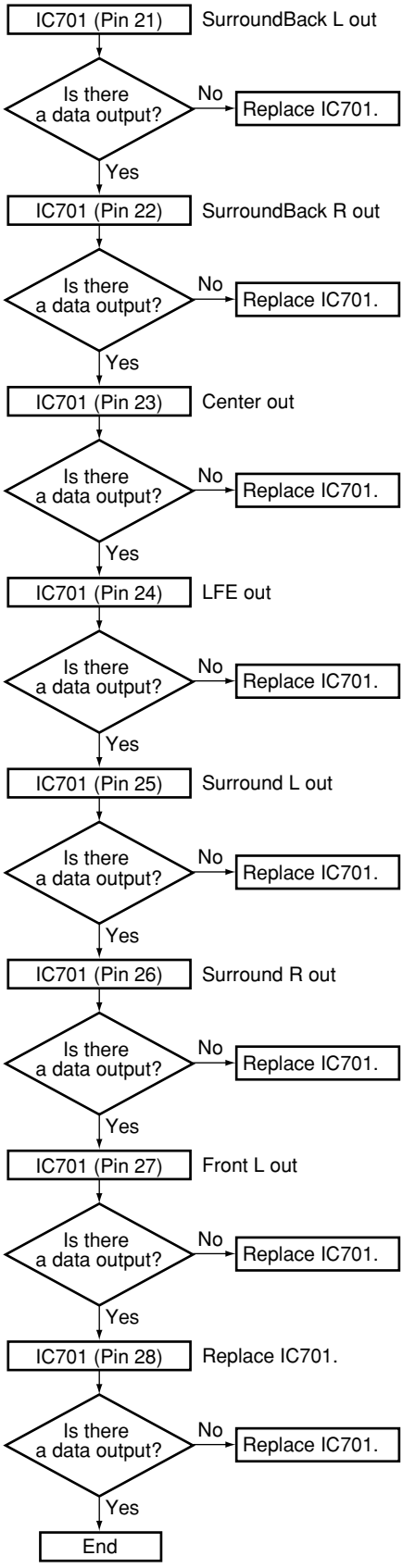
Step 7: DSP output (digital)

Digital output when indicated each CH.



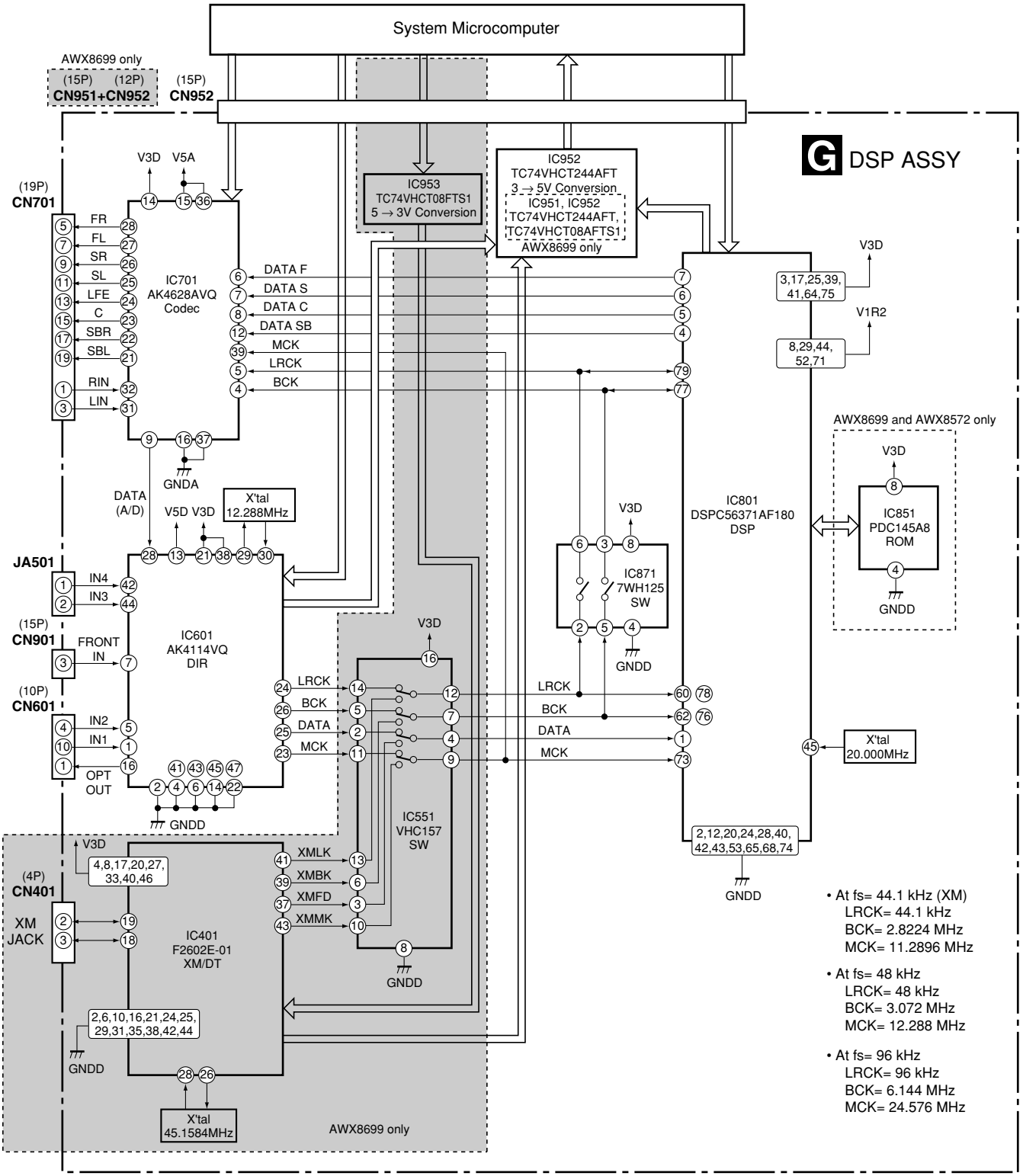
Step 8: CODEC output (analog)

Analog output when indicated each CH.



• DSP Block Diagram

• : AWX8699 only



7.1.4 HDMI TROUBLESHOOTING

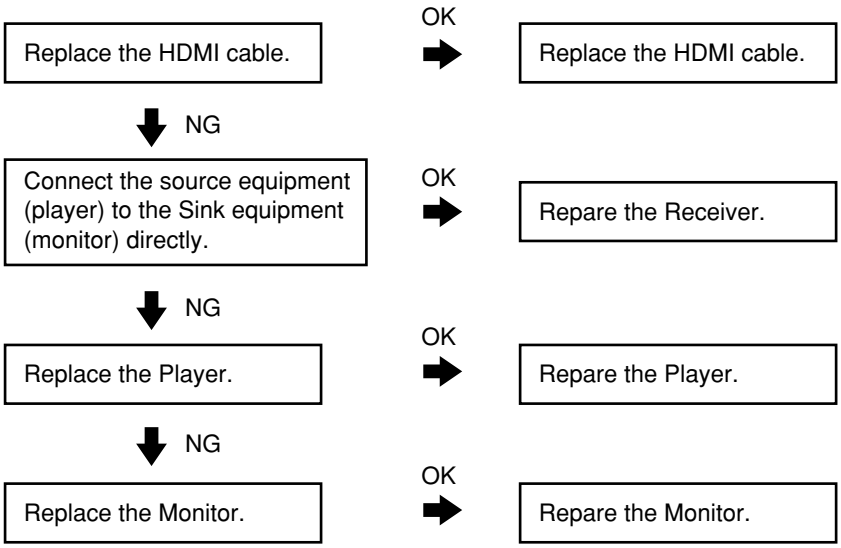
■ HDMI Simple Diagnosis

Please refer to the one point trouble shooting first before checking the flow chart on the next page.

HDMI

Symptom	Remedy
No picture or sound.	• If the problem still persists when connecting your HDMI component directly to your monitor, please consult the component or monitor manual or contact the manufacturer for support.
No picture.	• Depending in the output settings of the source component, it may be outputting a video format that can't be displayed. Change the output settings of the source, or connect using the component, S-video or composite jacks.
No sound, or sound suddenly ceases.	• Since the HDMI audio signal is sent through this receiver to your TV, you need to make separate connections for audio if you want to hear your HDMI component through this system. • If you've made separate connections for audio, make sure you have assigned the analog/digital jack(s) to the corresponding HDMI input for the component. • Check the audio output settings of the source component.

Causes for no display or sound from the monitor



■ HDMI Troubleshooting

• The parts marked like **V+5** in the following chart are located in "HDMI &DVC Assy Check Points".

Common section

Step 1-1: Connections

CN1001, CN1002 — **A** **a**

Are BtoB connectors inserted securely? — No → Insert it securely.

Yes

CN1003 — **B**

Is FFC cable inserted securely? — No → Insert it securely.

Yes

Step 1-2: Power supply

CN1002 (+ side) — 5 V — **V+5**

Is the voltage 5 V? — No → Check the AUDIO IN Assy or DC/DC Assy.

Yes

C903 (+ side) — 3.3 V — **V+3R3**

Is the voltage 3.3 V? — No → Check the IC901. If IC901 is failure, replace IC901.

Yes

To Step 2-1: HDMI section
To Step 3-1: Video converter section

HDMI section

Step 2-1: CE

CN1001 (Pin 5) — CE — **A**

Is the voltage "H" (5 V)? — No → Check the parts and patterns in the path. Diagnose the MAIN CONTROL Assy.

Yes

Step 2-2: Power supply

V+5D — 5 V — **V+5D**

Is the voltage 5 V? — No → Check the L1001. If L1001 is failure, replace L1001.

Yes

C104 (+ side) — 3.3 V (IC101) — **3.3V_EQ**

Is the voltage 3.3 V? — No → Check the L101 and Q101. If L101 or Q101 is failure, replace L101 or Q101.

Yes

Step 2-3: SEL

CN1001 (Pin 4) — SEL — **A**

Is the voltage "H"(5V) when selecting IN1? And is the voltage "L" when selecting IN2? — No → Check the parts and patterns in the path. Diagnose the MAIN CONTROL Assy.

Yes

Step 2-4: Source 5 V

* When connected the source equipment to IN1.

JA101 (Pin 18) — +5 V (HDMI IN1) — **C-1**

Is the voltage 5 V? — No → Check the JA101. If JA101 is failure, replace JA101.

Yes

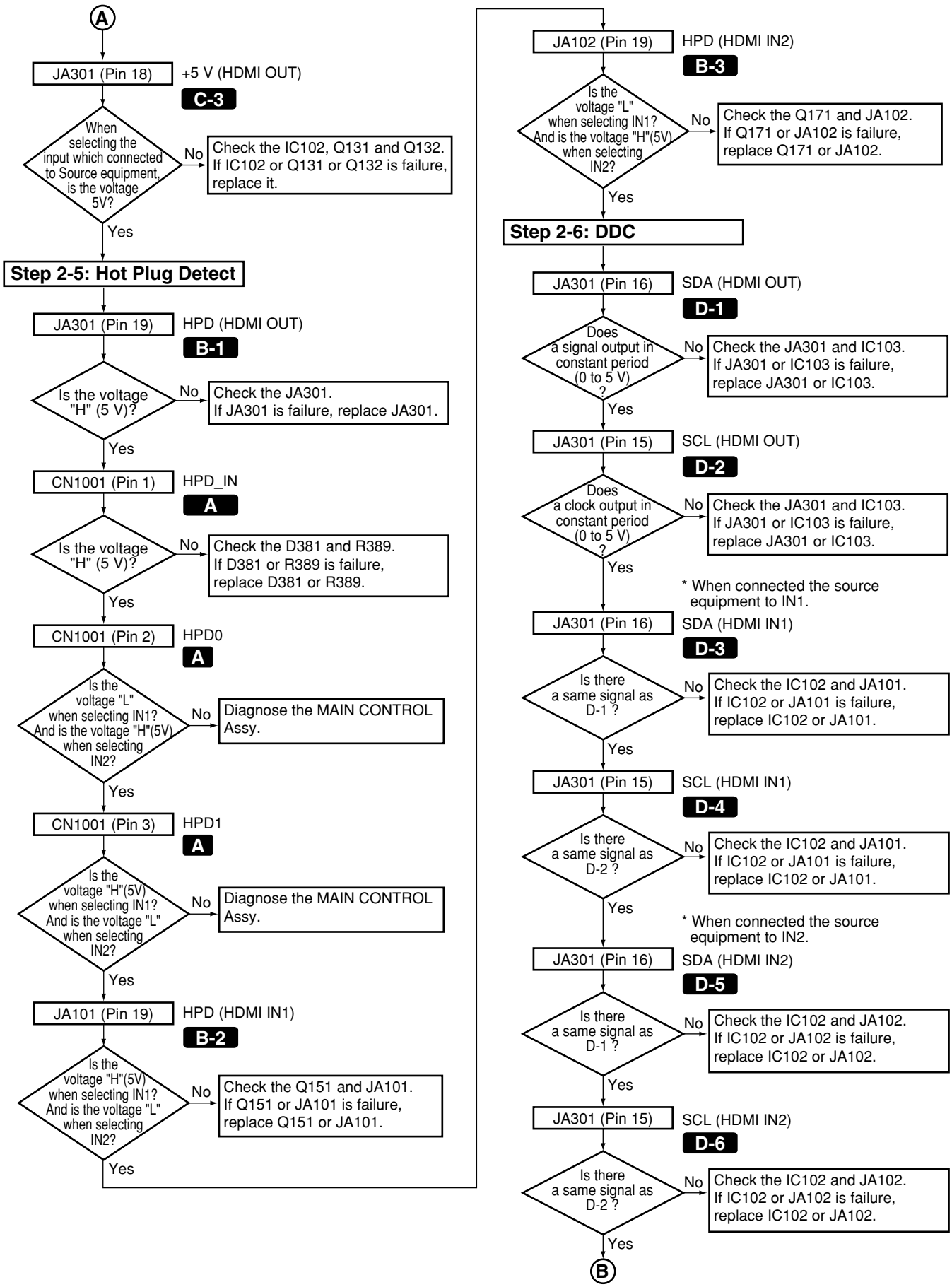
* When connected the source equipment to IN2.

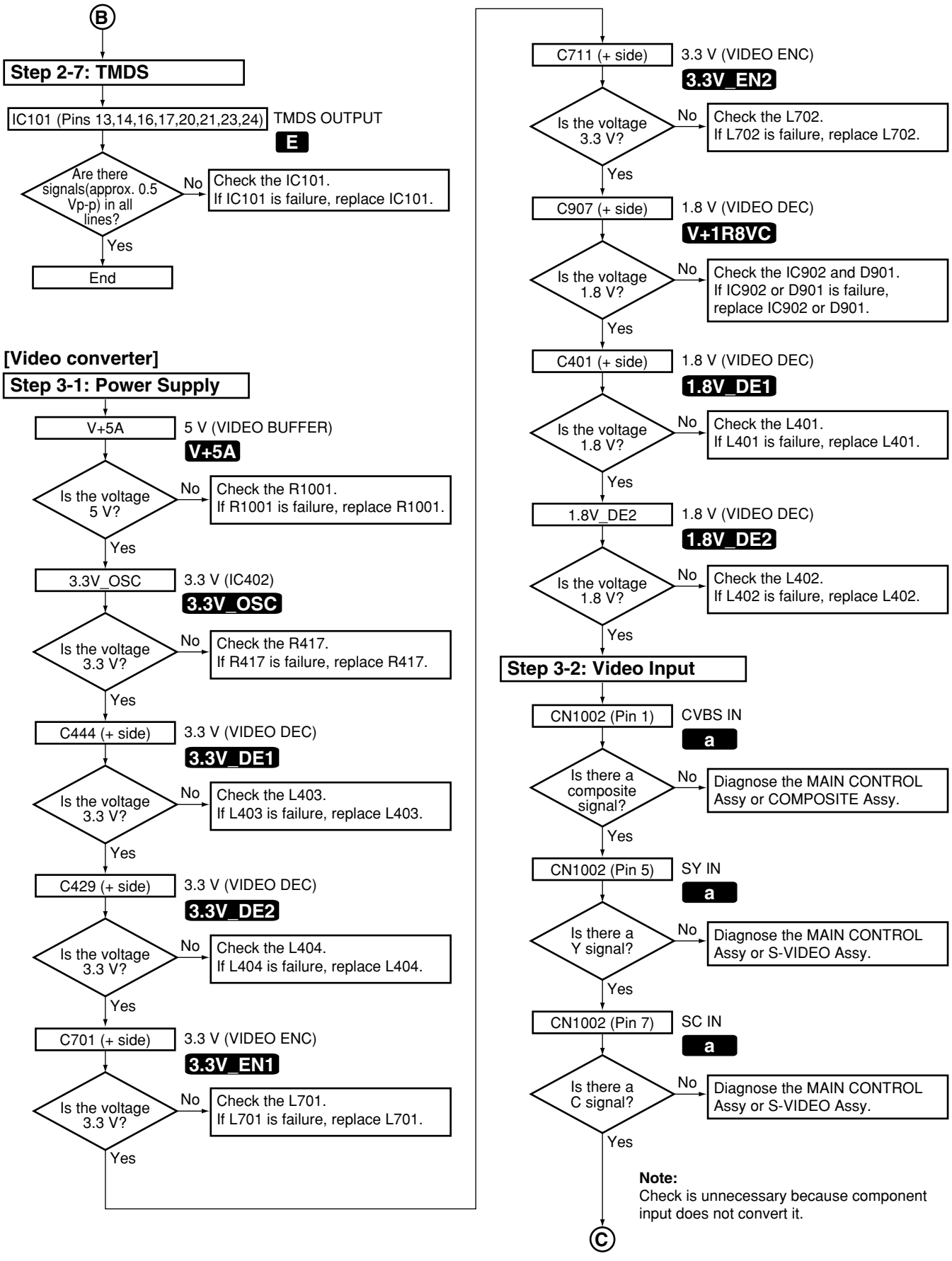
JA102 (Pin 18) — +5 V (HDMI IN2) — **C-2**

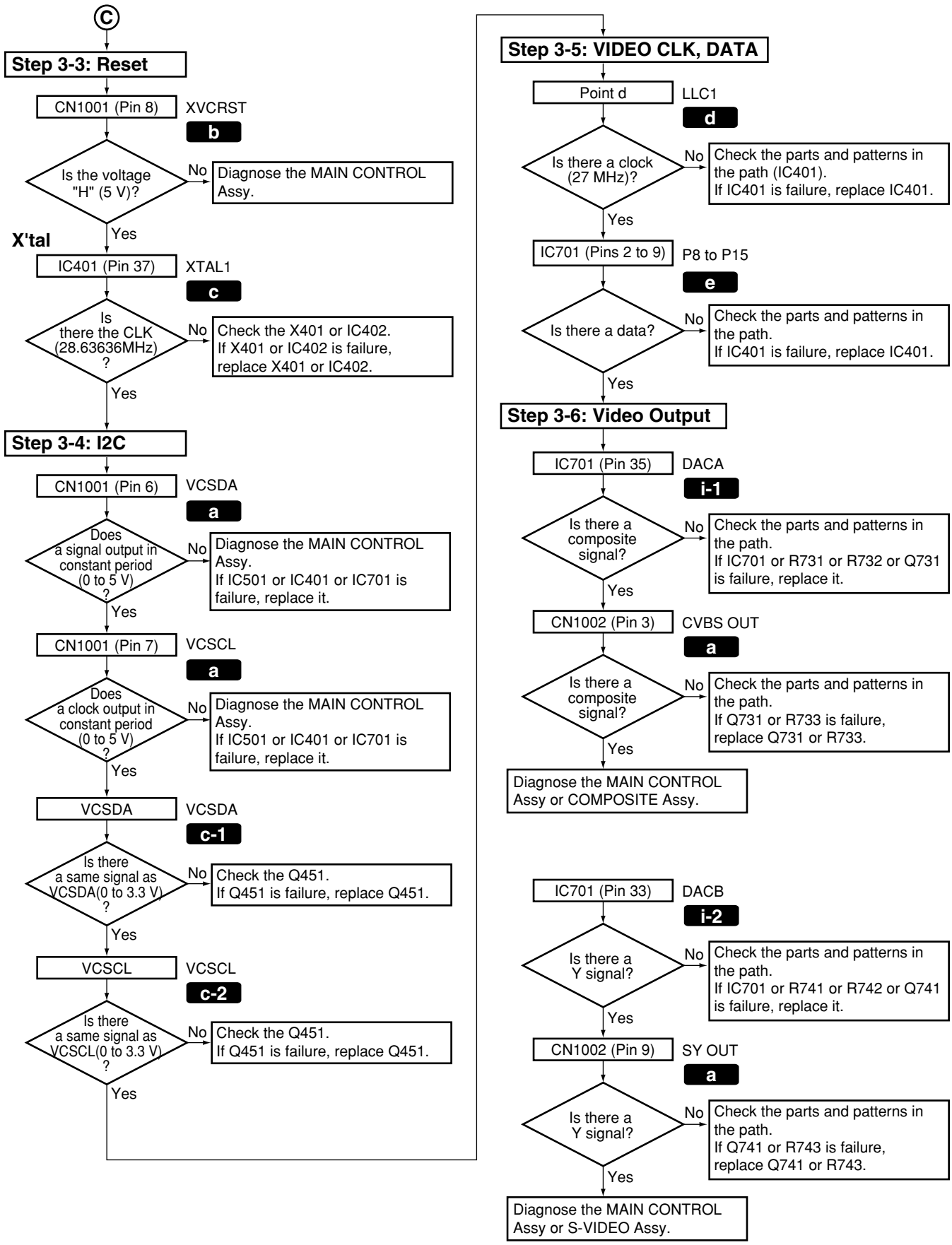
Is the voltage 5 V? — No → Check the JA102. If JA102 is failure, replace JA102.

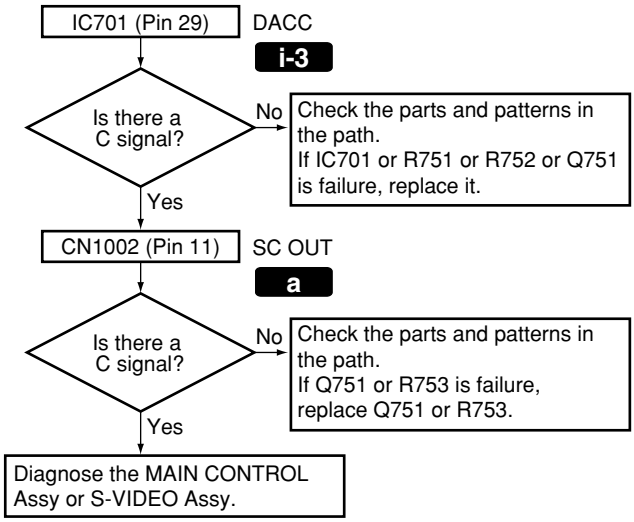
Yes

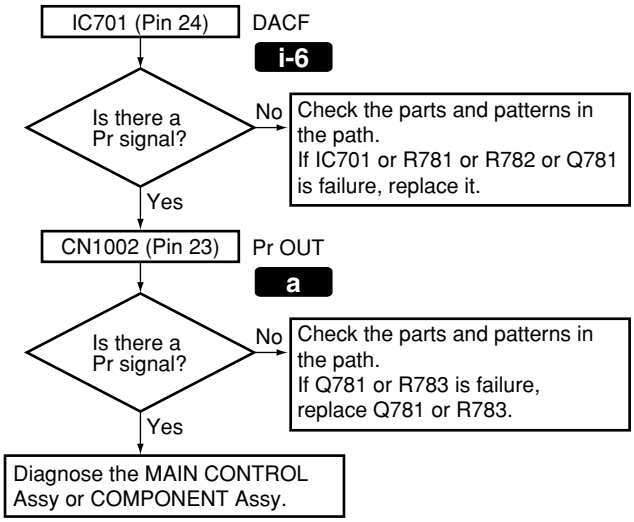
Ⓐ

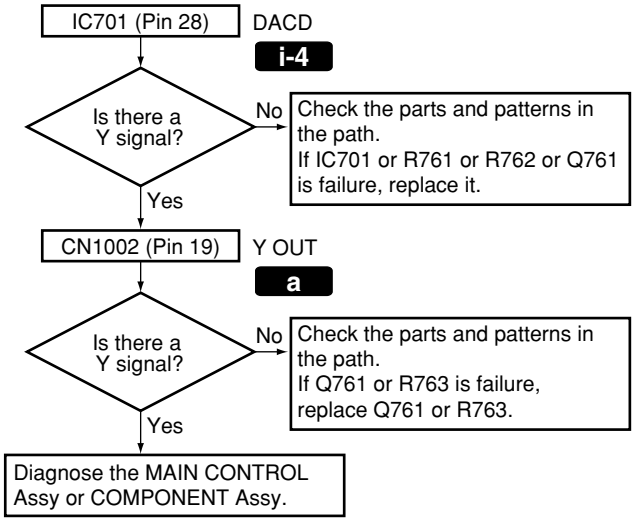

A
JA301 (Pin 18)
+5 V (HDMI OUT)
C-3
When selecting the input which connected to Source equipment, is the voltage 5V?
No
Check the IC102, Q131 and Q132. If IC102 or Q131 or Q132 is failure, replace it.
Yes
Step 2-5: Hot Plug Detect
JA301 (Pin 19)
HPD (HDMI OUT)
B-1
Is the voltage "H" (5 V)?
No
Check the JA301. If JA301 is failure, replace JA301.
Yes
CN1001 (Pin 1)
HPD_IN
A
Is the voltage "H" (5 V)?
No
Check the D381 and R389. If D381 or R389 is failure, replace D381 or R389.
Yes
CN1001 (Pin 2)
HPD0
A
Is the voltage "L" when selecting IN1? And is the voltage "H"(5V) when selecting IN2?
No
Diagnose the MAIN CONTROL Assy.
Yes
CN1001 (Pin 3)
HPD1
A
Is the voltage "H"(5V) when selecting IN1? And is the voltage "L" when selecting IN2?
No
Diagnose the MAIN CONTROL Assy.
Yes
JA101 (Pin 19)
HPD (HDMI IN1)
B-2
Is the voltage "H"(5V) when selecting IN1? And is the voltage "L" when selecting IN2?
No
Check the Q151 and JA101. If Q151 or JA101 is failure, replace Q151 or JA101.
Yes
JA102 (Pin 19)
HPD (HDMI IN2)
B-3
Is the voltage "L" when selecting IN1? And is the voltage "H"(5V) when selecting IN2?
No
Check the Q171 and JA102. If Q171 or JA102 is failure, replace Q171 or JA102.
Yes
Step 2-6: DDC
JA301 (Pin 16)
SDA (HDMI OUT)
D-1
Does a signal output in constant period (0 to 5 V) ?
No
Check the JA301 and IC103. If JA301 or IC103 is failure, replace JA301 or IC103.
Yes
JA301 (Pin 15)
SCL (HDMI OUT)
D-2
Does a clock output in constant period (0 to 5 V) ?
No
Check the JA301 and IC103. If JA301 or IC103 is failure, replace JA301 or IC103.
Yes
* When connected the source equipment to IN1.
JA301 (Pin 16)
SDA (HDMI IN1)
D-3
Is there a same signal as D-1 ?
No
Check the IC102 and JA101. If IC102 or JA101 is failure, replace IC102 or JA101.
Yes
JA301 (Pin 15)
SCL (HDMI IN1)
D-4
Is there a same signal as D-2 ?
No
Check the IC102 and JA101. If IC102 or JA101 is failure, replace IC102 or JA101.
Yes
* When connected the source equipment to IN2.
JA301 (Pin 16)
SDA (HDMI IN2)
D-5
Is there a same signal as D-1 ?
No
Check the IC102 and JA102. If IC102 or JA102 is failure, replace IC102 or JA102.
Yes
JA301 (Pin 15)
SCL (HDMI IN2)
D-6
Is there a same signal as D-2 ?
No
Check the IC102 and JA102. If IC102 or JA102 is failure, replace IC102 or JA102.
Yes
B

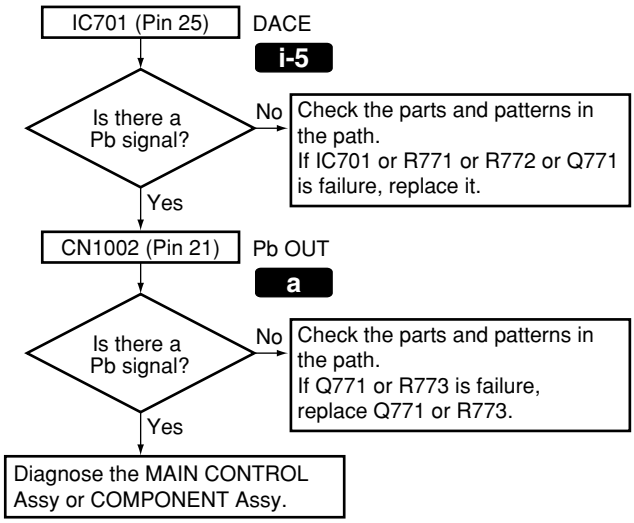

B
Step 2-7: TMDS
IC101 (Pins 13,14,16,17,20,21,23,24)
TMDS OUTPUT
E
Are there signals(approx. 0.5 Vp-p) in all lines?
No
Check the IC101.
If IC101 is failure, replace IC101.
Yes
End
[Video converter]
Step 3-1: Power Supply
V+5A
5 V (VIDEO BUFFER)
V+5A
Is the voltage 5 V?
No
Check the R1001.
If R1001 is failure, replace R1001.
Yes
3.3V_OSC
3.3 V (IC402)
3.3V_OSC
Is the voltage 3.3 V?
No
Check the R417.
If R417 is failure, replace R417.
Yes
C444 (+ side)
3.3 V (VIDEO DEC)
3.3V_DE1
Is the voltage 3.3 V?
No
Check the L403.
If L403 is failure, replace L403.
Yes
C429 (+ side)
3.3 V (VIDEO DEC)
3.3V_DE2
Is the voltage 3.3 V?
No
Check the L404.
If L404 is failure, replace L404.
Yes
C701 (+ side)
3.3 V (VIDEO ENC)
3.3V_EN1
Is the voltage 3.3 V?
No
Check the L701.
If L701 is failure, replace L701.
Yes
C711 (+ side)
3.3 V (VIDEO ENC)
3.3V_EN2
Is the voltage 3.3 V?
No
Check the L702.
If L702 is failure, replace L702.
Yes
C907 (+ side)
1.8 V (VIDEO DEC)
V+1R8VC
Is the voltage 1.8 V?
No
Check the IC902 and D901.
If IC902 or D901 is failure, replace IC902 or D901.
Yes
C401 (+ side)
1.8 V (VIDEO DEC)
1.8V_DE1
Is the voltage 1.8 V?
No
Check the L401.
If L401 is failure, replace L401.
Yes
1.8V_DE2
1.8 V (VIDEO DEC)
1.8V_DE2
Is the voltage 1.8 V?
No
Check the L402.
If L402 is failure, replace L402.
Yes
Step 3-2: Video Input
CN1002 (Pin 1)
CVBS IN
a
Is there a composite signal?
No
Diagnose the MAIN CONTROL Assy or COMPOSITE Assy.
Yes
CN1002 (Pin 5)
SY IN
a
Is there a Y signal?
No
Diagnose the MAIN CONTROL Assy or S-VIDEO Assy.
Yes
CN1002 (Pin 7)
SC IN
a
Is there a C signal?
No
Diagnose the MAIN CONTROL Assy or S-VIDEO Assy.
Yes
Note:
Check is unnecessary because component input does not convert it.
C


C
Step 3-3: Reset
CN1001 (Pin 8)
XVCRST
b
Is the voltage "H" (5 V)?
No
Diagnose the MAIN CONTROL Assy.
Yes
X'tal
IC401 (Pin 37)
XTAL1
c
Is there the CLK (28.63636MHz) ?
No
Check the X401 or IC402. If X401 or IC402 is failure, replace X401 or IC402.
Yes
Step 3-4: I2C
CN1001 (Pin 6)
VCSDA
a
Does a signal output in constant period (0 to 5 V) ?
No
Diagnose the MAIN CONTROL Assy. If IC501 or IC401 or IC701 is failure, replace it.
Yes
CN1001 (Pin 7)
VCSCL
a
Does a clock output in constant period (0 to 5 V) ?
No
Diagnose the MAIN CONTROL Assy. If IC501 or IC401 or IC701 is failure, replace it.
Yes
VCSDA
VCSDA
c-1
Is there a same signal as VCSDA(0 to 3.3 V) ?
No
Check the Q451. If Q451 is failure, replace Q451.
Yes
VCSCL
VCSCL
c-2
Is there a same signal as VCSCL(0 to 3.3 V) ?
No
Check the Q451. If Q451 is failure, replace Q451.
Yes
Step 3-5: VIDEO CLK, DATA
Point d
LLC1
d
Is there a clock (27 MHz)?
No
Check the parts and patterns in the path (IC401). If IC401 is failure, replace IC401.
Yes
IC701 (Pins 2 to 9)
P8 to P15
e
Is there a data?
No
Check the parts and patterns in the path. If IC401 is failure, replace IC401.
Yes
Step 3-6: Video Output
IC701 (Pin 35)
DACA
i-1
Is there a composite signal?
No
Check the parts and patterns in the path. If IC701 or R731 or R732 or Q731 is failure, replace it.
Yes
CN1002 (Pin 3)
CVBS OUT
a
Is there a composite signal?
No
Check the parts and patterns in the path. If Q731 or R733 is failure, replace Q731 or R733.
Yes
Diagnose the MAIN CONTROL Assy or COMPOSITE Assy.
IC701 (Pin 33)
DACB
i-2
Is there a Y signal?
No
Check the parts and patterns in the path. If IC701 or R741 or R742 or Q741 is failure, replace it.
Yes
CN1002 (Pin 9)
SY OUT
a
Is there a Y signal?
No
Check the parts and patterns in the path. If Q741 or R743 is failure, replace Q741 or R743.
Yes
Diagnose the MAIN CONTROL Assy or S-VIDEO Assy.


IC701 (Pin 29)
DACC
i-3
Is there a C signal?
No
Check the parts and patterns in the path. If IC701 or R751 or R752 or Q751 is failure, replace it.
Yes
CN1002 (Pin 11)
SC OUT
a
Is there a C signal?
No
Check the parts and patterns in the path. If Q751 or R753 is failure, replace Q751 or R753.
Yes
Diagnose the MAIN CONTROL Assy or S-VIDEO Assy.

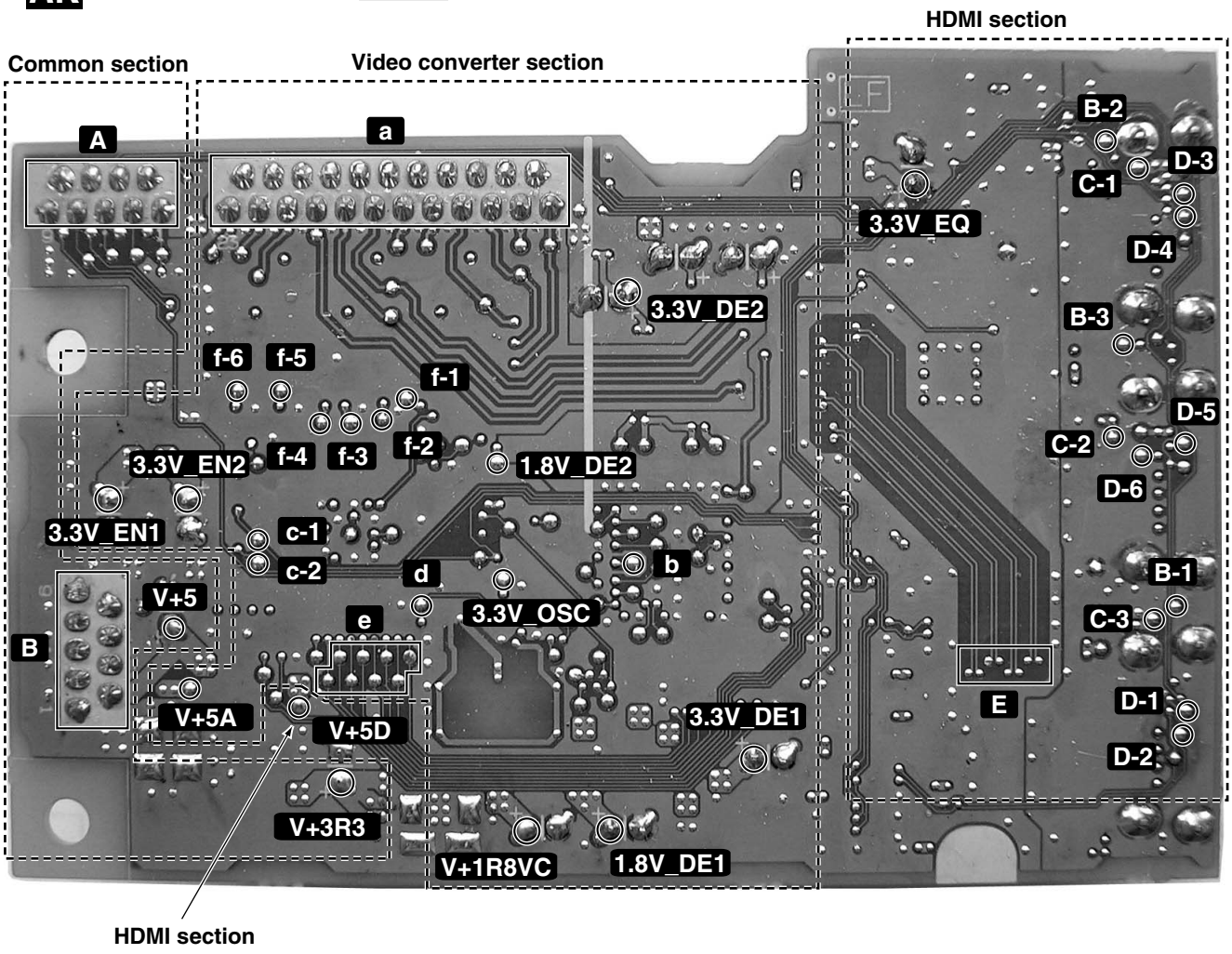

IC701 (Pin 24)
DACF
i-6
Is there a Pr signal?
No
Check the parts and patterns in the path. If IC701 or R781 or R782 or Q781 is failure, replace it.
Yes
CN1002 (Pin 23)
Pr OUT
a
Is there a Pr signal?
No
Check the parts and patterns in the path. If Q781 or R783 is failure, replace Q781 or R783.
Yes
Diagnose the MAIN CONTROL Assy or COMPONENT Assy.


IC701 (Pin 28)
DACD
i-4
Is there a Y signal?
No
Check the parts and patterns in the path. If IC701 or R761 or R762 or Q761 is failure, replace it.
Yes
CN1002 (Pin 19)
Y OUT
a
Is there a Y signal?
No
Check the parts and patterns in the path. If Q761 or R763 is failure, replace Q761 or R763.
Yes
Diagnose the MAIN CONTROL Assy or COMPONENT Assy.

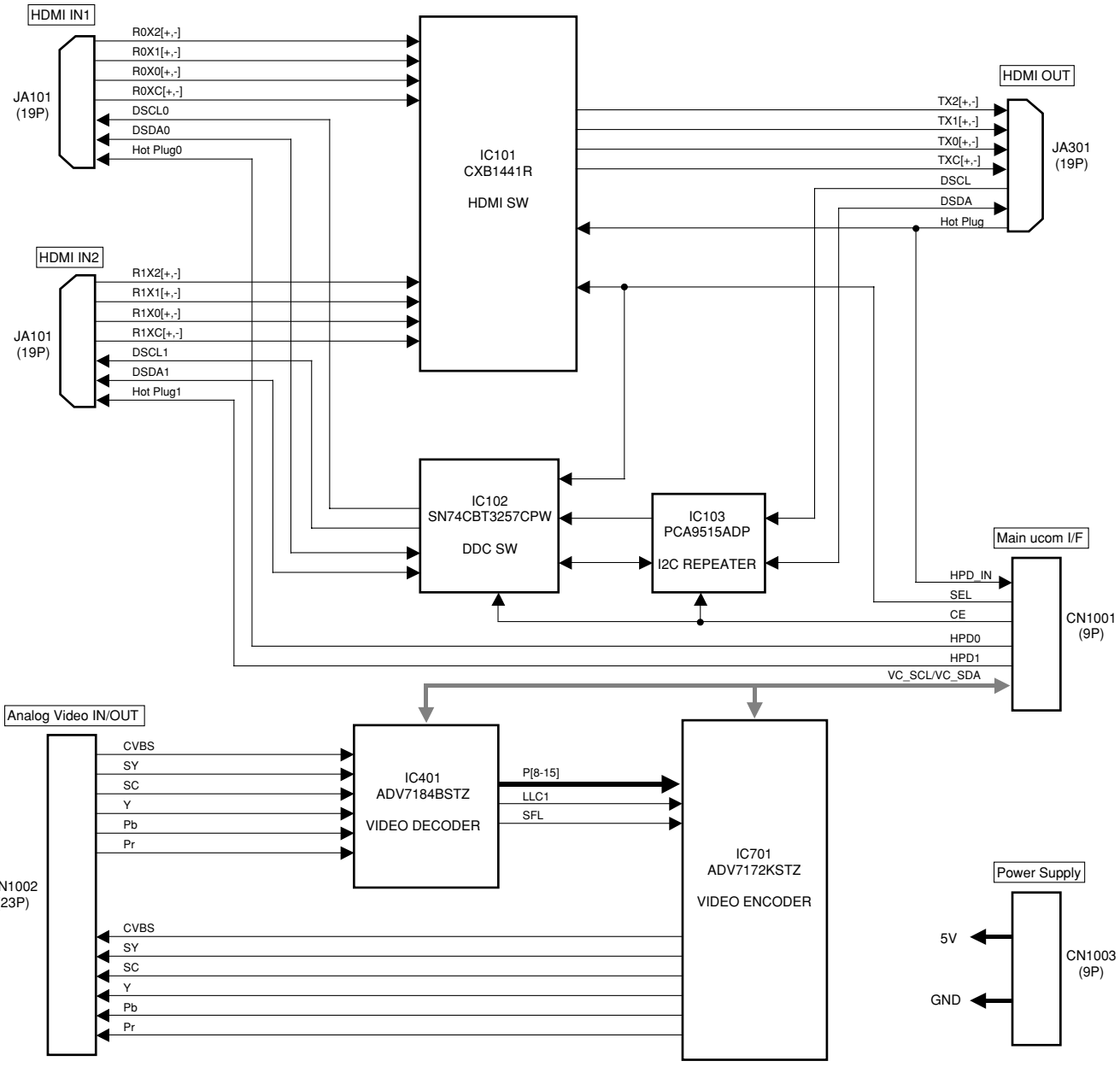

IC701 (Pin 25)
DACE
i-5
Is there a Pb signal?
No
Check the parts and patterns in the path. If IC701 or R771 or R772 or Q771 is failure, replace it.
Yes
CN1002 (Pin 21)
Pb OUT
a
Is there a Pb signal?
No
Check the parts and patterns in the path. If Q771 or R773 is failure, replace Q771 or R773.
Yes
Diagnose the MAIN CONTROL Assy or COMPONENT Assy.

■ HDMI & DVC Assy Check Points

AK HDMI & DVC ASSY SIDE B



■ Block Diagram of the HDMI & DVC Assy



7.1.5 USB MODULE

■ Description of Error Indications

FL Display	Error Content	Possible causes and actions to be taken
USB ERROR1 USB ERR1	Detection of overcurrent to a USB device	Overcurrent (500 mA or more) is consumed at the connected USB device. • Some USB devices, such as a portable HDD, need more current than that this unit supplies. (Use the AC adaptor for the connected USB device.) • The USB power is short-circuited.
USB ERROR2 USB ERR2	Detection of a medium not supported	A USB device that this unit does not support (other than the MSC Class) is connected (such as a mouse, printer, or digital camera). • Connect a mass storage class USB device.
USB ERROR3 USB ERR3	Communication error with the system microcomputer	Communication between TCC760HC01-AG (IC701) and PDC**** (IC****) failed. • Defective connection (connectors) inside this unit • See STEP 3 of Troubleshooting.

■ Operations when overcurrent to a USB device is detected

(1) Overcurrent to a USB device is detected at the port for the microcomputer.

(2) The power supply to the USB device is stopped.

(3) Control of 5 V power is disabled at the port for the microcomputer.

(4) Change of indications on the FL display

V3 Low usage

Flashes for 2 sec.

In a case of an 8-digit FL display

⇩ Lights up after flashing for 2 sec.

In a case of an 8-digit FL display

(5) To supply power to the USB module again:

- Turn the power to the unit off then back on.
- Set the function setting to anything other than USB then back to USB.
- Press the USB play key on the remote control unit.

(6) After overcurrent is detected, if the USB play key is pressed while the error indication is displayed, power supply to the USB module is restored. If overcurrent is no longer detected, the indications shown below are displayed (normal indication):

In a case of an 8-digit FL display

In this state, flashing of "USB ERROR1" stops, but playback will not start. To start playback, press the USB play key again.

In the above case, if overcurrent is detected again, the above procedures 1 through 4 are repeated.

■ In a case where a medium not supported is connected

(1) Change of indications on the FL displays

Flashes for 2 sec.

In a case of an 8-digit FL display

⇩ Lights up after flashing for 2 sec.

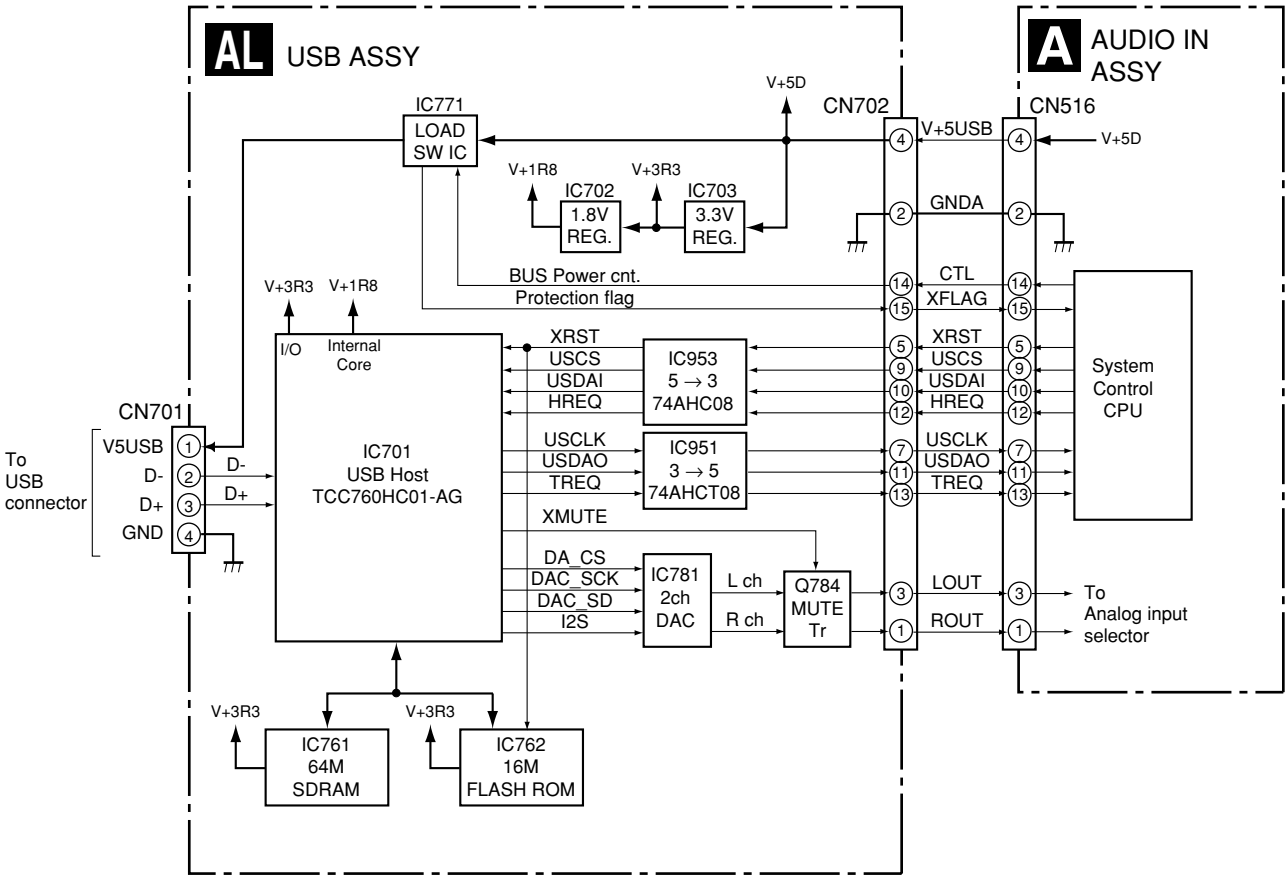
In a case of an 8-digit FL display

If overcurrent is detected before detection of a non-supported medium, the error indication "USB ERROR1" remains, as the power supply to the USB module is stopped.

On supported media

The formats of supported media that can be played back on this unit are MP3, WMA, and AAC.
Some media in MPEG4 can also be played back. As AAC derives from MPEG4 codec, playback of media in AAC codec of MPEG4 is possible.

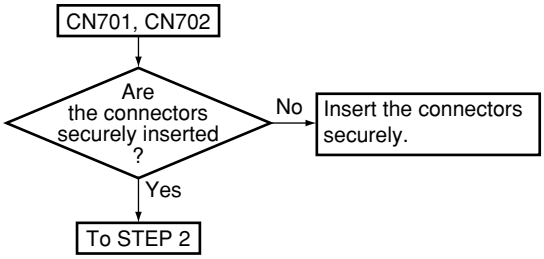
■ Block Diagram of the USB Assy



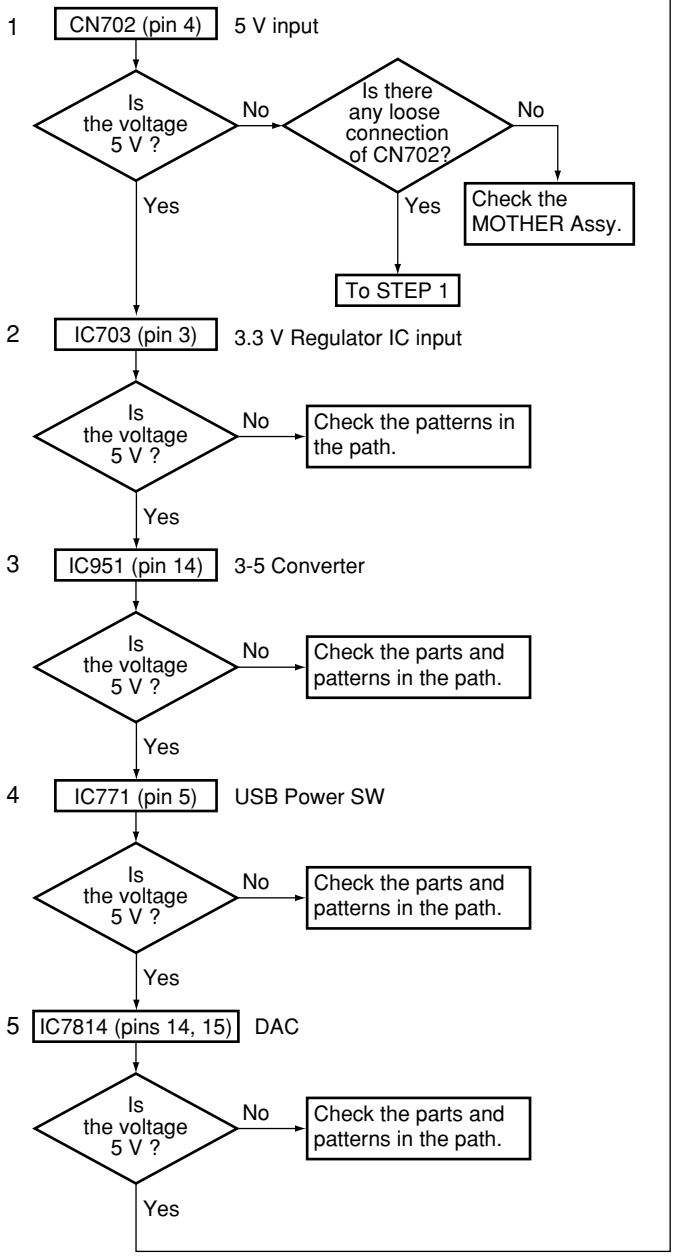
Main parts	Purpose
TCC760HC01-AG	: USB Host control decoder (MP3/WMA/MPEG-4AAC)
16M FLASH ROM	: Firmware is stored
64M SDRAM	: Temporary storage area of decoding music file
LOAD SWITCH	: Current limitation to USB device power
2ch DAC	: D/A converter for analog output

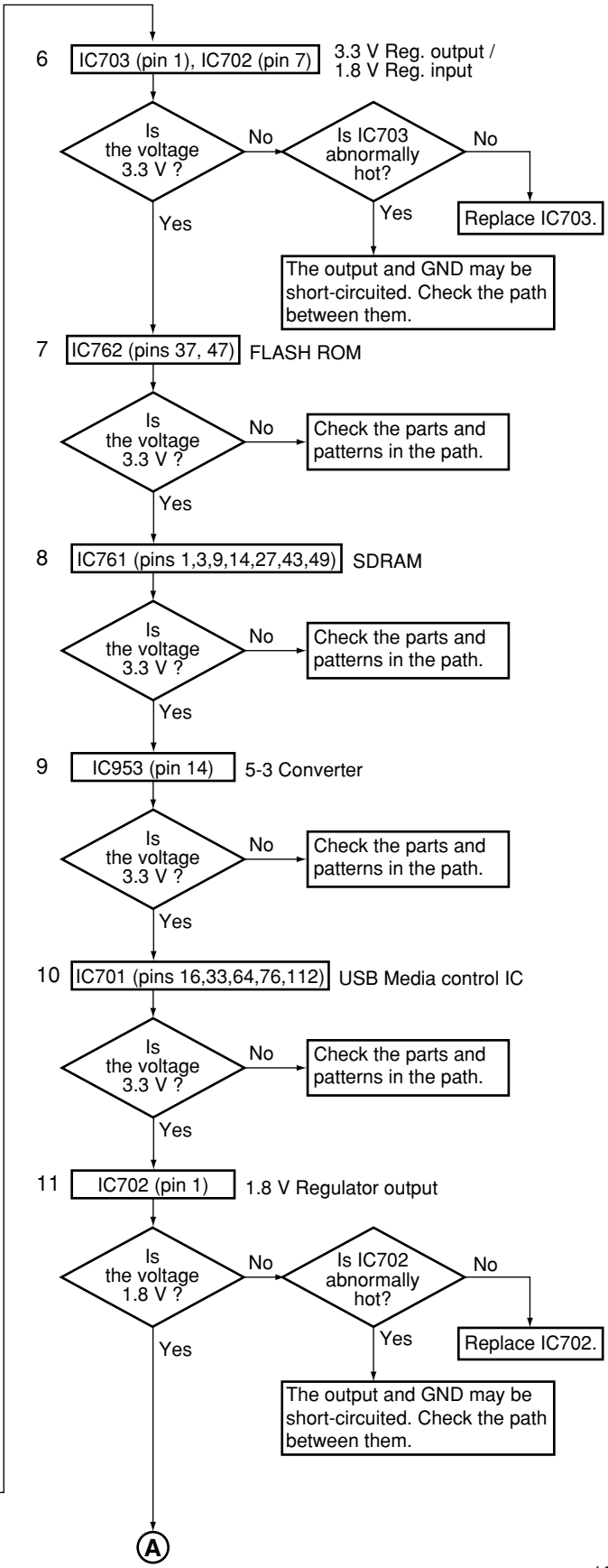
■ USB Troubleshooting

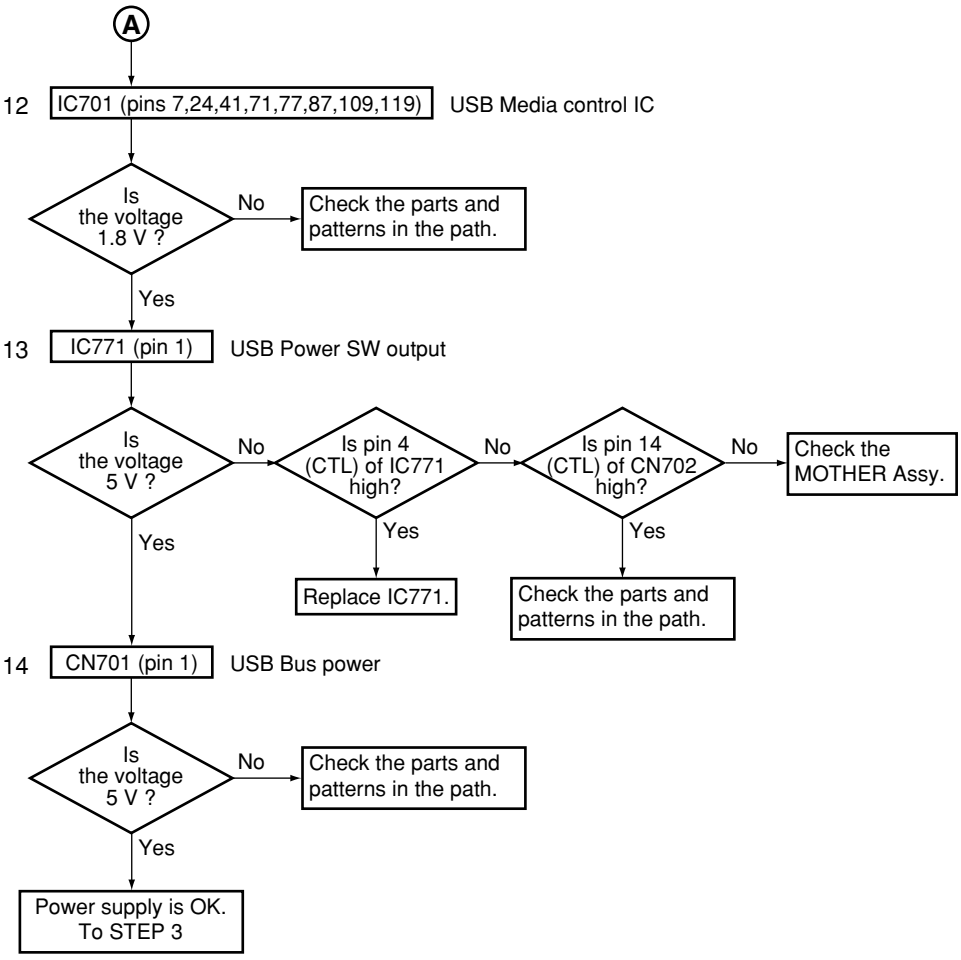
Step 1: Connectors



Step 2: Power supply


1 CN702 (pin 4) 5 V input
Is the voltage 5 V ?
No
Is there any loose connection of CN702?
No
Check the MOTHER Assy.
Yes
Yes
To STEP 1
2 IC703 (pin 3) 3.3 V Regulator IC input
Is the voltage 5 V ?
No
Check the patterns in the path.
Yes
3 IC951 (pin 14) 3-5 Converter
Is the voltage 5 V ?
No
Check the parts and patterns in the path.
Yes
4 IC771 (pin 5) USB Power SW
Is the voltage 5 V ?
No
Check the parts and patterns in the path.
Yes
5 IC7814 (pins 14, 15) DAC
Is the voltage 5 V ?
No
Check the parts and patterns in the path.
Yes


6 IC703 (pin 1), IC702 (pin 7) 3.3 V Reg. output / 1.8 V Reg. input
Is the voltage 3.3 V ?
No
Is IC703 abnormally hot?
No
Replace IC703.
Yes
Yes
The output and GND may be short-circuited. Check the path between them.
7 IC762 (pins 37, 47) FLASH ROM
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
8 IC761 (pins 1,3,9,14,27,43,49) SDRAM
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
9 IC953 (pin 14) 5-3 Converter
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
10 IC701 (pins 16,33,64,76,112) USB Media control IC
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
11 IC702 (pin 1) 1.8 V Regulator output
Is the voltage 1.8 V ?
No
Is IC702 abnormally hot?
No
Replace IC702.
Yes
Yes
The output and GND may be short-circuited. Check the path between them.
A



Step 3: Operation of USB Media control IC

Note: Please confirm it with the USB memory connected for the content.

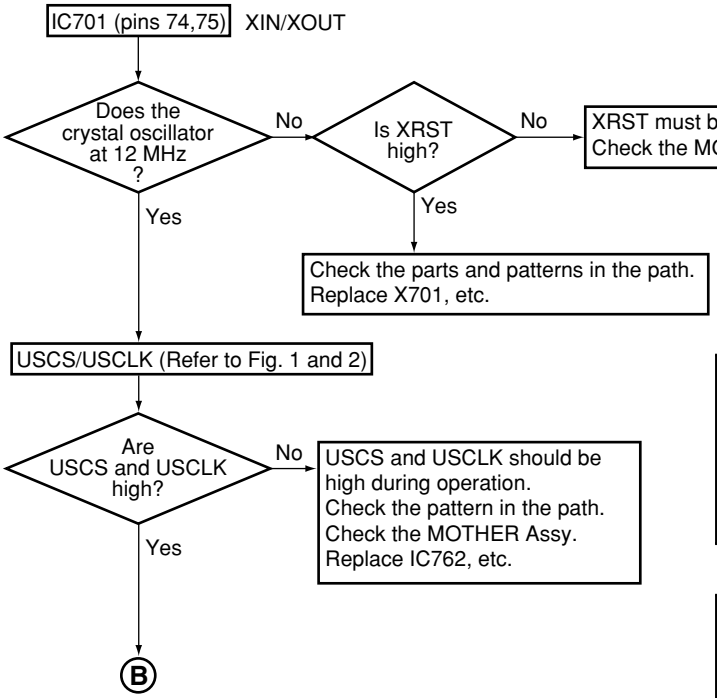


Fig. 1

	IC701	IC953 (5 V → 3 V)		CN702
XRST	pin 72	pin 3	pins 1,2	pin 5
USCS	pin 121	pin 11	pins 12,13	pin 9
HREQ	pin 122	pin 6	pins 4,5	pin 12
USDAI	pin 118	pin 8	pins 9,10	pin 10

Fig. 2

	IC701	IC951 (3 V → 5 V)		CN702
USCLK	pin 116	pins 4,5	pin 6	pin 7
USDAO	pin 115	pins 9,10	pin 8	pin 11
TREQ	pin 123	pins 12,13	pin 11	pin 13

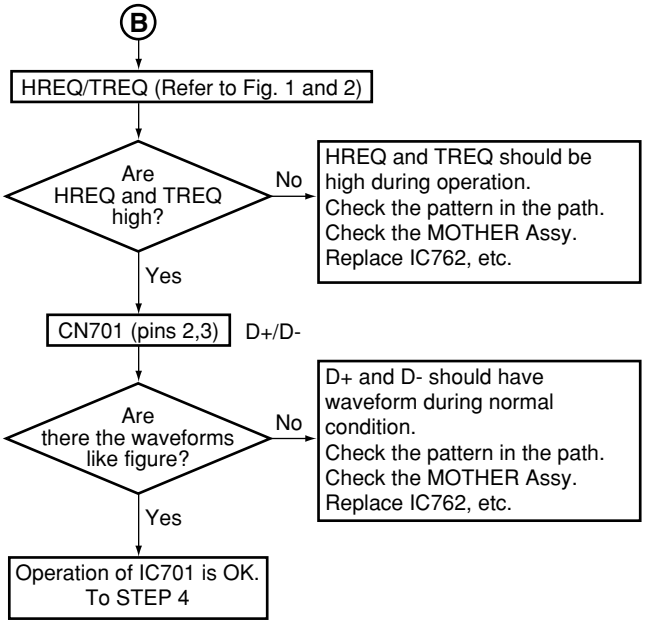
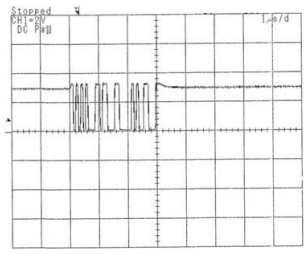
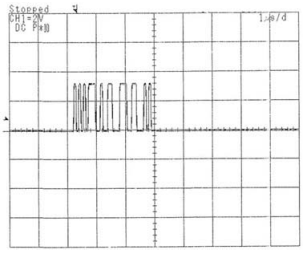


Fig. D+



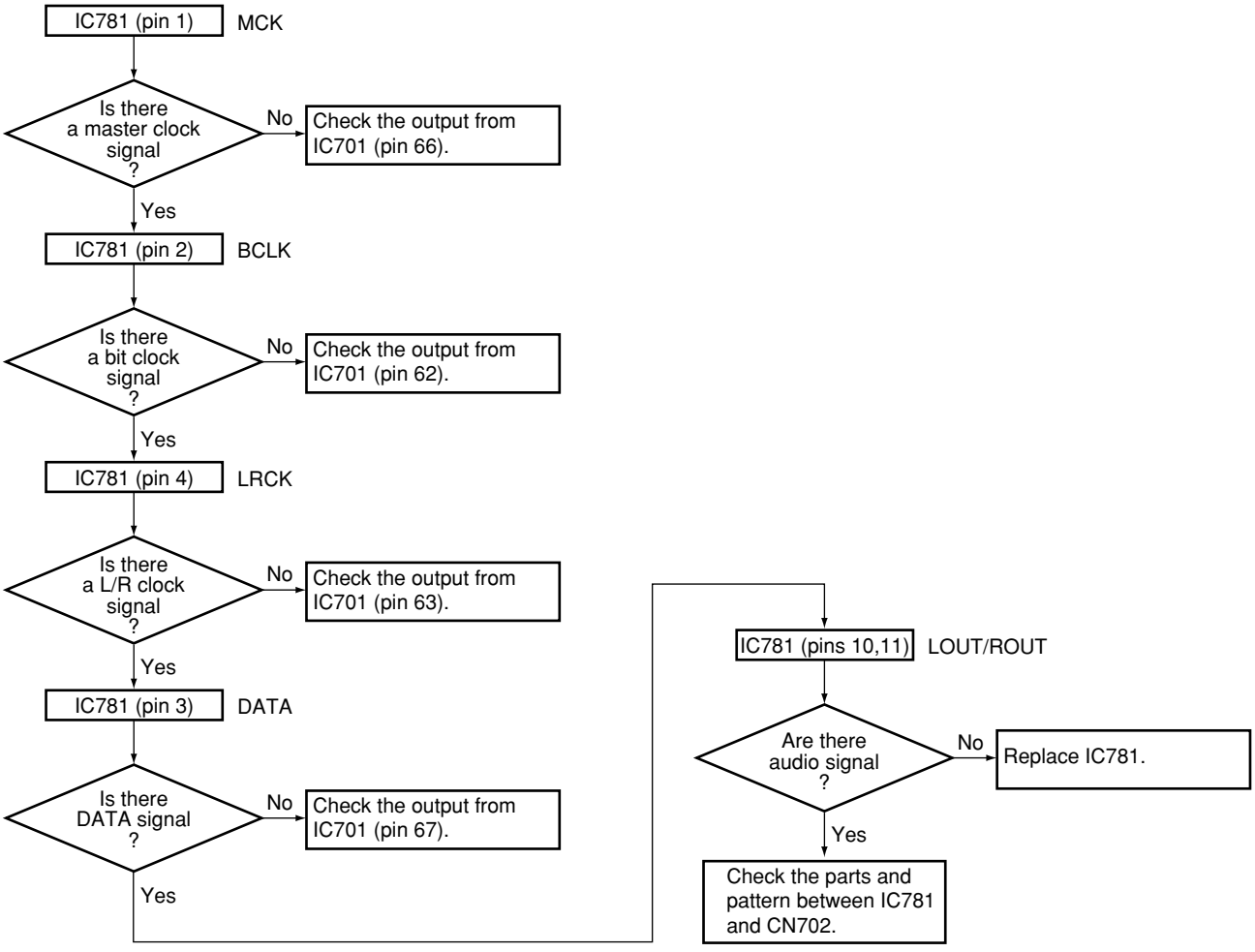
X: 1 µsec/div, Y: 2 V/div

Fig. D-



X: 1 µsec/div, Y: 2 V/div

Step 4: Audio Out check



7.1.6 HOW TO UPDATE FIRMWARE

■ Explanation

With this unit, updating of the firmware of the USB module can be performed, using a USB memory stick. However, if the hardware of the flash memory that stores the firmware or the firmware itself has a problem, updating cannot be performed in a manner described below. In such a case, replacement of the flash memory is required.

■ Procedures

1. Turn the unit on then set the function setting to USB function.
2. Insert the USB memory stick that contains the "player.rom" file.*
3. "LOADING" is indicated on the FL display.
4. "UPDATE" is indicated on the FL display.
5. Wait until "FINISH" is indicated on the FL display.
6. Remove the USB memory stick then set the function setting to anything other than USB.
7. Return the function setting to USB function and wait for about 5 seconds in order to obtain the version data of the USB firmware.
8. Turn the unit off (Standby mode).
9. Check the version ("U_xxxxxx" is suffixed to the version indication).
   If the version is not updated, the data for the new version may not have been obtained in Step 7. Repeat Step 7 and the subsequent steps.

Notes * :

- Never reinsert the USB memory stick that contains the "player.rom" file.
- In a rare case, depending on the type of USB memory stick, the above-mentioned updating procedures are not possible. In such a case, try with other type of USB memory stick.

Importance:

- Never change the function setting or turn the power off during the process of Steps 3 through 5. If you do, loading of the firmware will fail, and updating procedures cannot be continued. In such a case, replacement of the flash memory is required.

7.1.7 DISASSEMBLY

Note 1: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Note 2: For performing the diagnosis shown below, the following jigs for service is required:

- 11P board to board extension jig cable (GGD1482)
- 13P board to board extension jig cable (GGD1483)
- 15P board to board extension jig cable (GGD1484)
- 21P board to board extension jig cable (GGD1485)

1. Before the Power Amp Block is removed

Before the Power Amp Block is removed, discharge C3257 and C3258 on the TRANS 2-1 Assy, as indicated below.
If you don't, the IC protectors (IC3351 and IC3352) on the VH TR Assy may be open, and DC voltage may be generated at the power amplifier output, which will result in "AMP ERR."

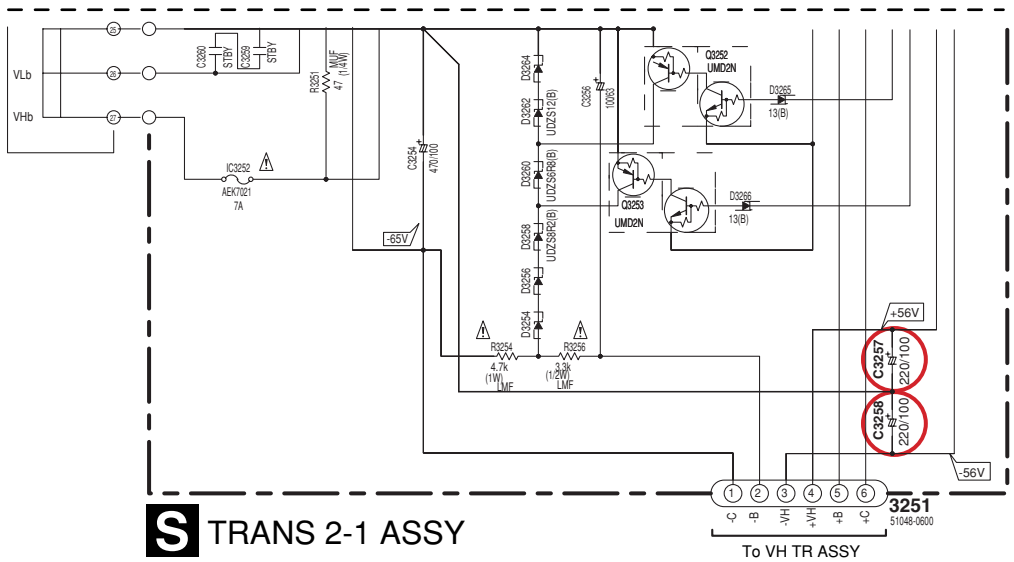
[Procedure]

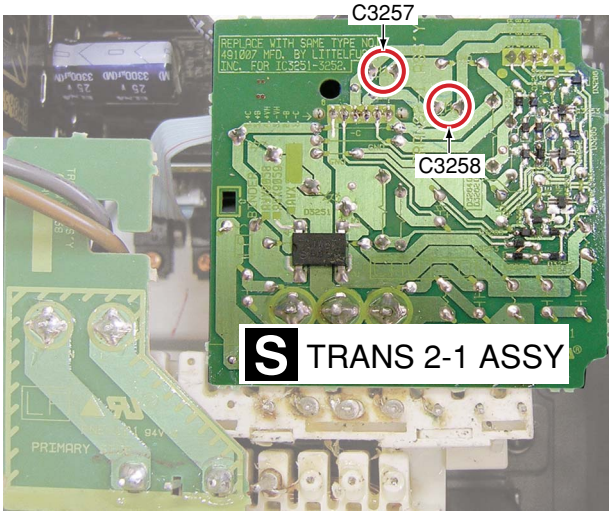
① Unplug the AC power cord.

② Discharge C3257 and C3258 on the TRANS 2-1 Assy.
Note: For discharging, use a load of 100Ω, 3W or more, to protect the IC protectors. Do NOT discharge instantly by short-circuiting.

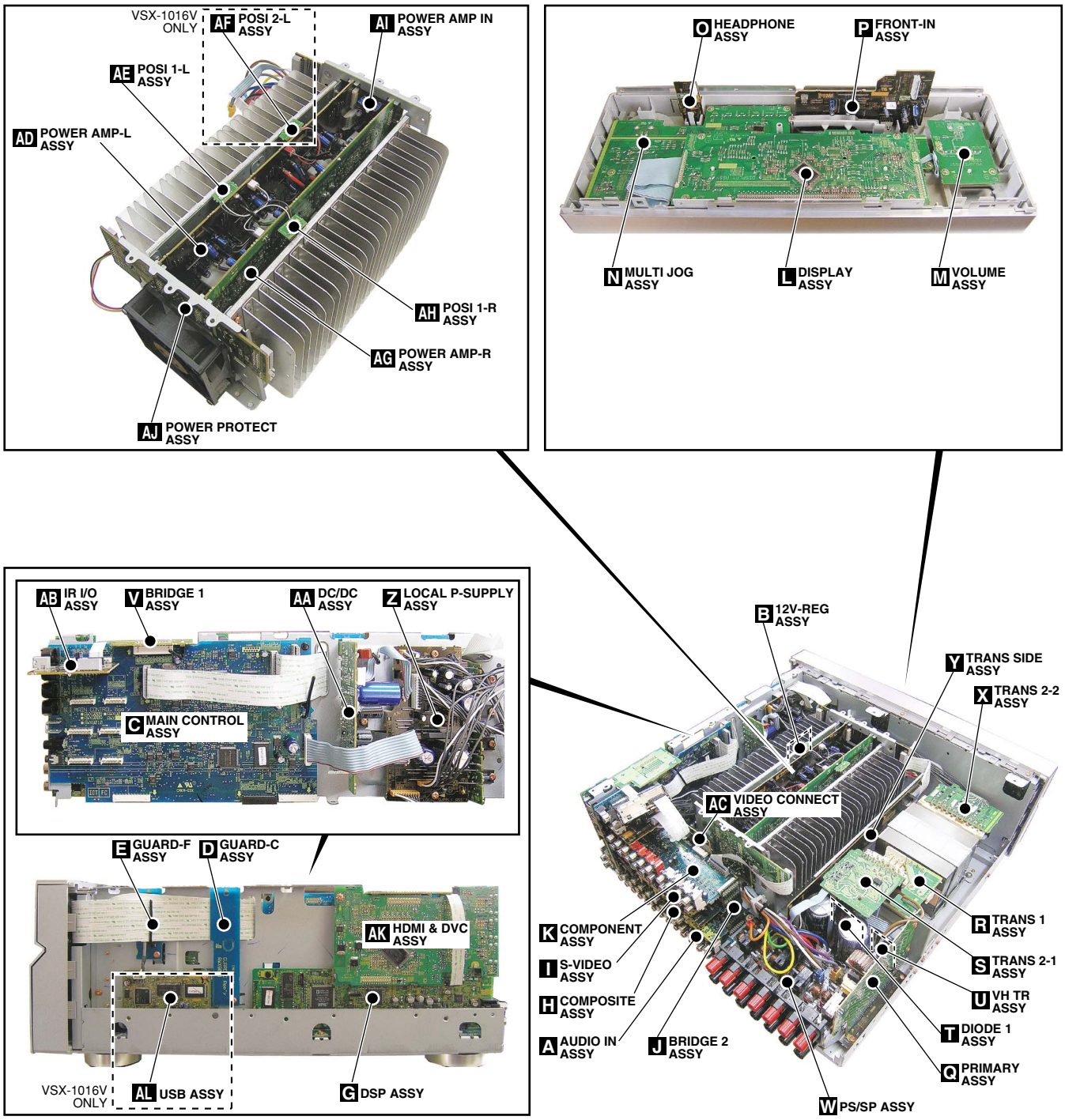
③ Check that the voltage between the electrodes of each C3257 and C3258 is 1V or less.

④ Reassembling the Power Amp Block.





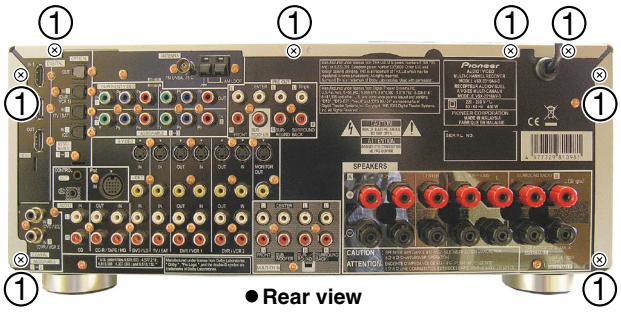
2. PCB Location



3. Disassembly

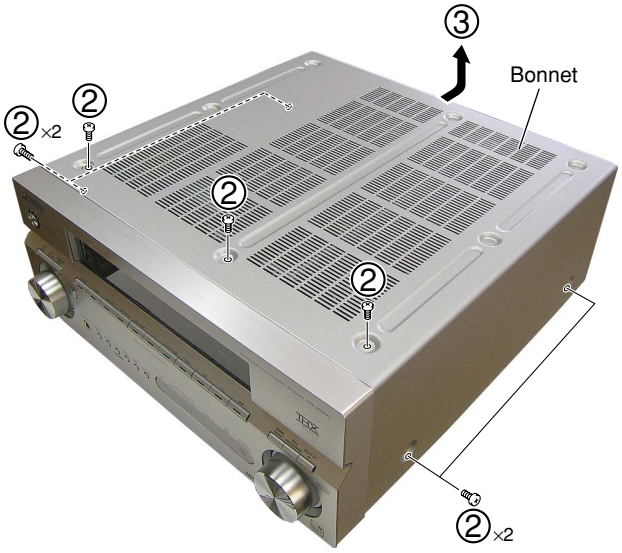
1 Bonnet

① Remove the eight screws.



● Rear view

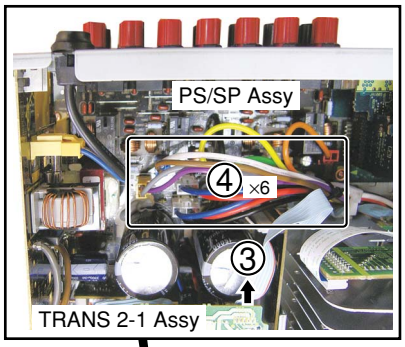
② Remove the seven screws.
③ Remove the bonnet.

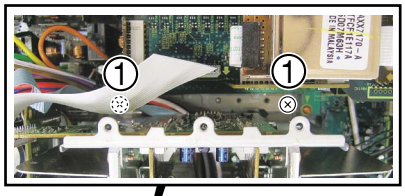


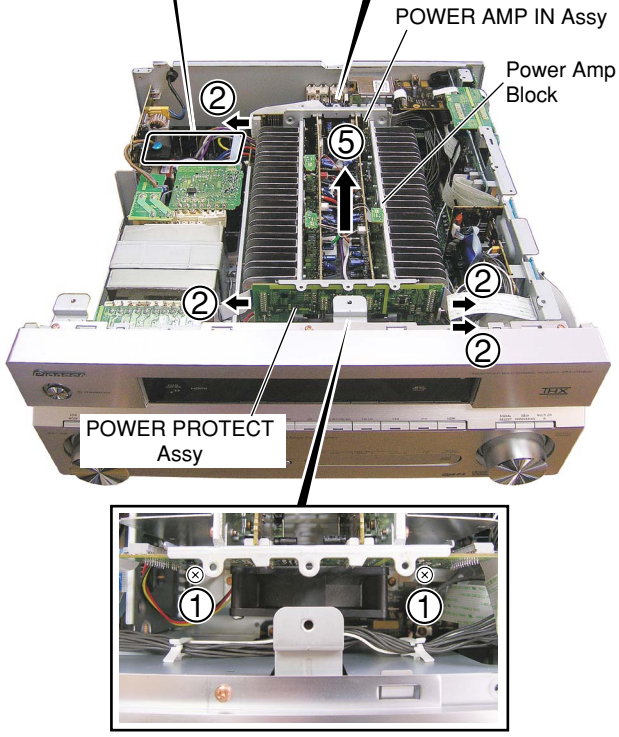
2 Power Amp Block

Caution:
Before removing the Power Amp Block, discharge C3257 and C3258 on the TRANS 2-1 Assy.
Refer to "1. Before the Power Amp Block is removed".

① Remove the four screws.
② Disconnect the three flexible cables and the one connector.
③ Disconnect the one jumper wire.
④ Disconnect the six connectors.
⑤ Remove the power amp block.



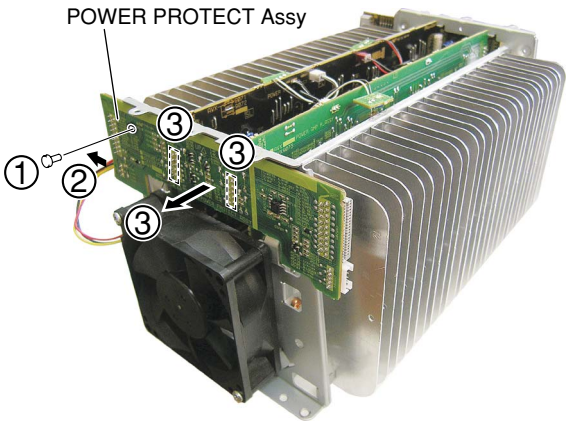




3 Replacing the Power Transistor

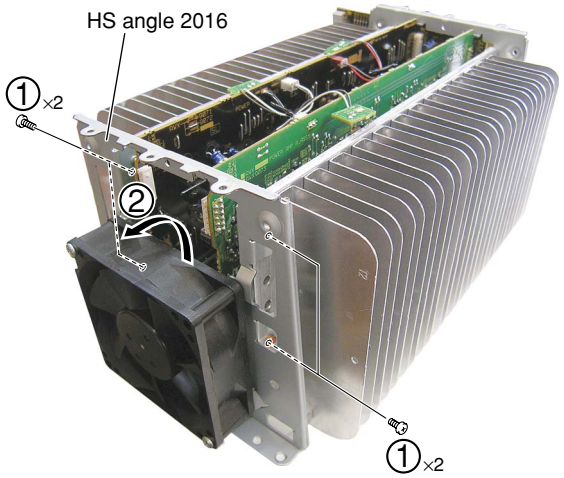
● POWER PROTECT Assy

① Remove the one nyron rivet.
② Disconnect the one connector. (VSX-1016V only)
③ Remove the POWER PROTECT Assy by removing the two connectors.



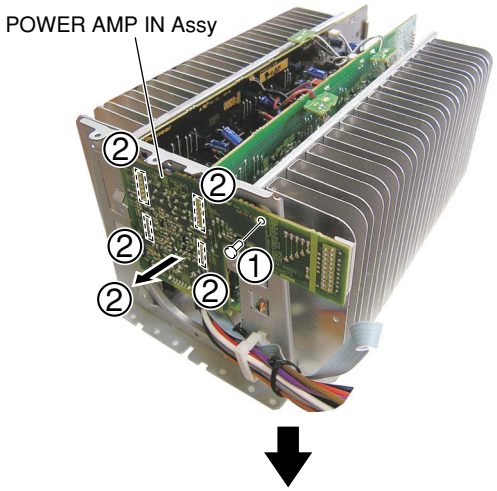
● HS Angle 2016

① Remove the four screws.
② Remove the HS angle 2016.



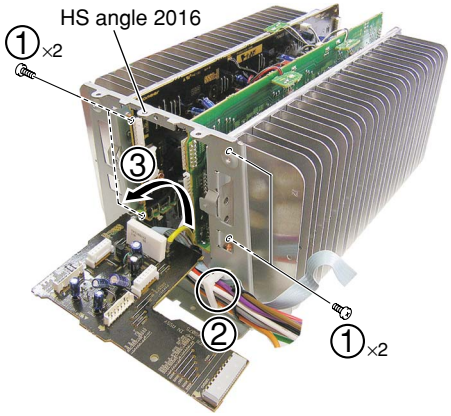
● POWER AMP IN Assy

① Remove the one nyron rivet.
② Remove the POWER AMP IN Assy by removing the four connectors.

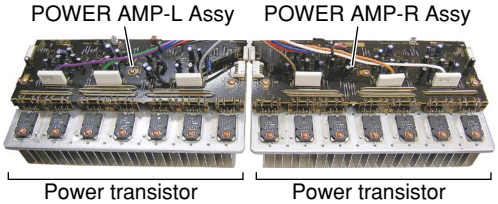


● HS Angle 2016

① Remove the four screws.
② Release the clamper.
③ Remove the HS angle 2016.



● Replacing the Power Transistor

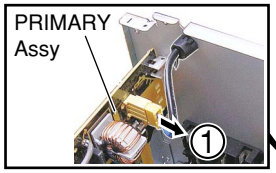


Replace

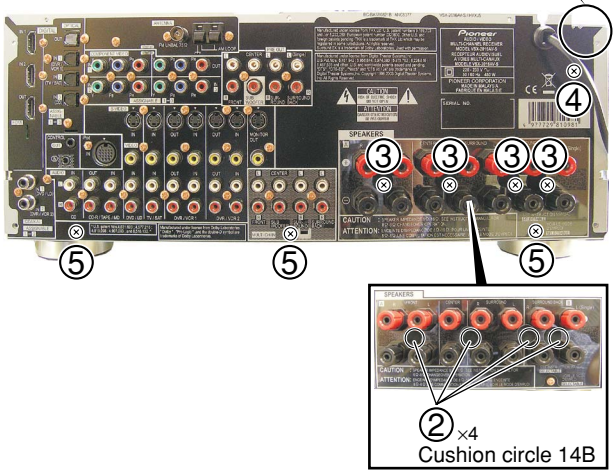
4 Replacing the AUDIO IN Assy

● Rear Panel

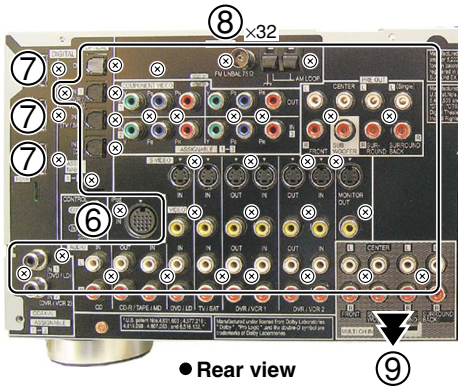
① Disconnect the one connector.
② Remove the four cushion circle 14Bs.
③ Remove the four screws.
④ Remove the one screw.
⑤ Remove the three screws.



● Rear view



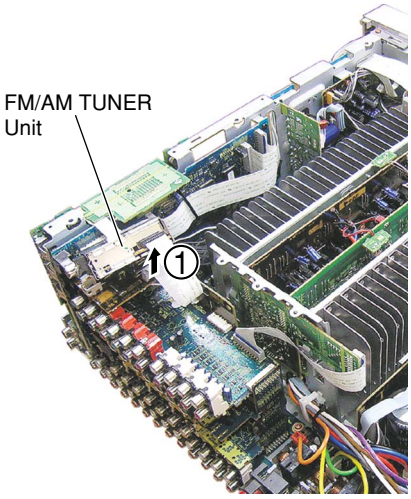
⑥ Remove the one screw.
⑦ Remove the three screws.
⑧ Remove the 32 screws.
⑨ Remove the rear panel.



● Rear view

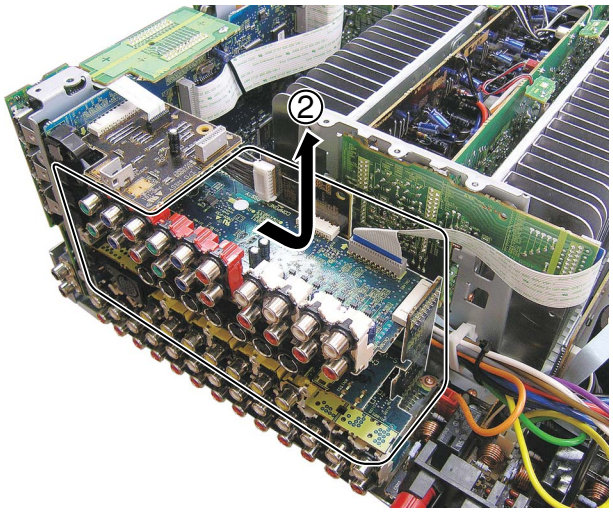
● FM/AM TUNER Unit

① Remove the FM/AM TUNER Unit by removing the one flexible cable.



● PCB Assys

① Disconnect cables, connectors, as required.
② Remove the COMPOSITE, S-VIDEO, COMPONENT, VIDEO CONNECT and BRIDGE 2 Assys.

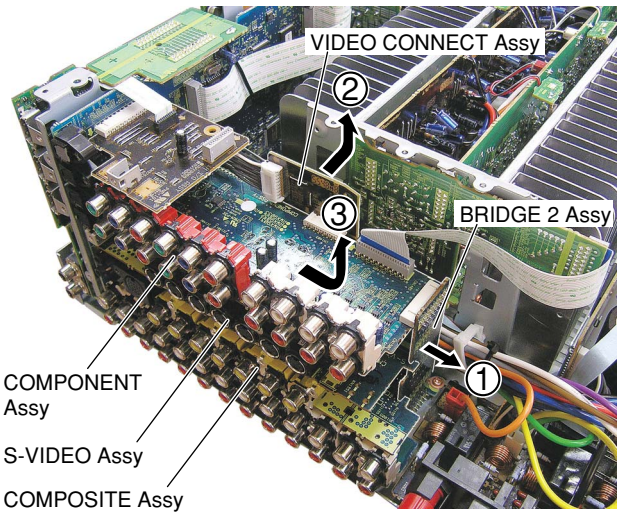


4. Diagnosis

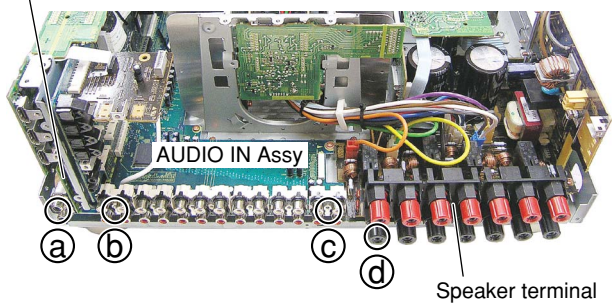
1 Preparations

❶ Remove the bonnet.
❷ Remove the rear panel.

① Remove the BRIDGE 2 Assy.
② Remove the VIDEO CONNECT Assy.
③ Remove the COMPONET, S-VIDEO, COMPOSITE Assys.

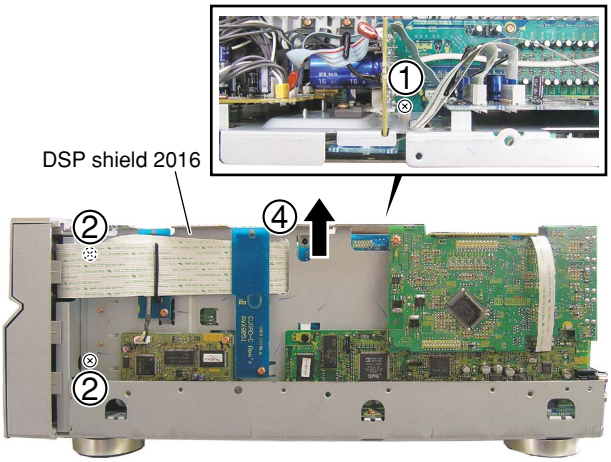


④ Connect the earth points to chassis as follows.
ⓐ Pin jack (GND) on the DSP Assy ↔ chassis
ⓑ Pin jack (L side GND) on the AUDIO IN Assy ↔ chassis
ⓒ Pin jack (R side GND) on the AUDIO IN Assy ↔ chassis
ⓓ Speaker terminal (L side black) ↔ chassis



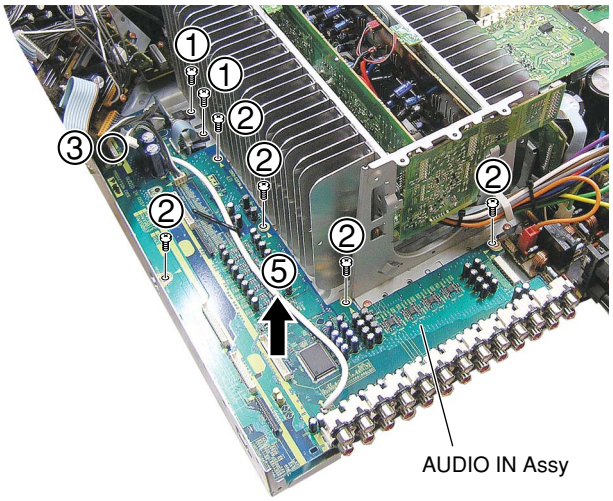
● **DSP Shield Section**

① Remove the one screw.
② Remove the two screws.
③ Disconnect cables, connectors, as required.
④ Remove the DSP shield 2016 with PCB Assemblies..



● **AUDIO IN Assy**

① Remove the two screws.
② Remove the five screws.
③ Release the locking card spacer.
④ Disconnect cables, connectors, as required.
⑤ Remove the AUDIO IN Assy.



2 Diagnosis

● COMPONENT Assy

Jig cable

- 11P board to board extension jig cable (GGD1482)
- 13P board to board extension jig cable (GGD1483) ×2

① Connect the three extension jig cables.

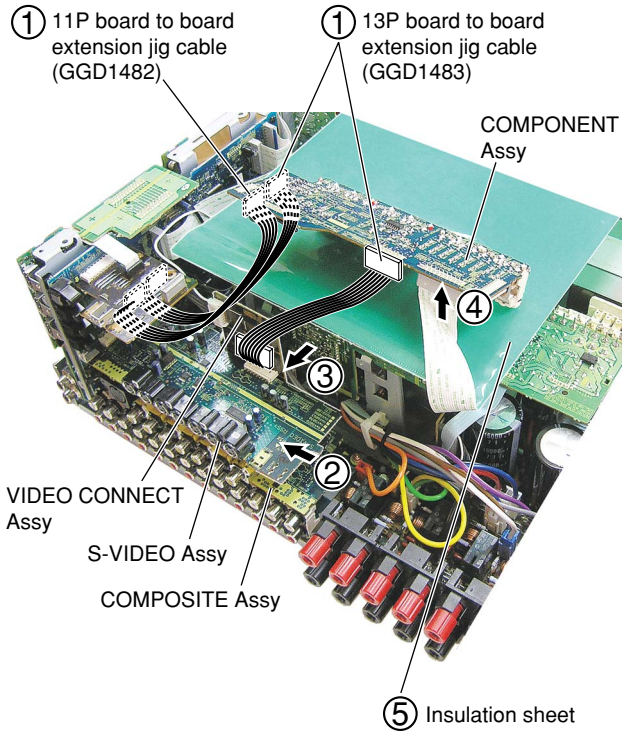
② Reassembling the S-VIDEO and COMPOSITE Assys.

③ Reassembling the VIDEO CONNECT Assy.

④ Connect the one flexible cable.

⑤ Insert the insulation sheet.

⑥ Arrange the unit as shown in the photo below.



Diagnosis

● S-VIDEO Assy

Jig cable

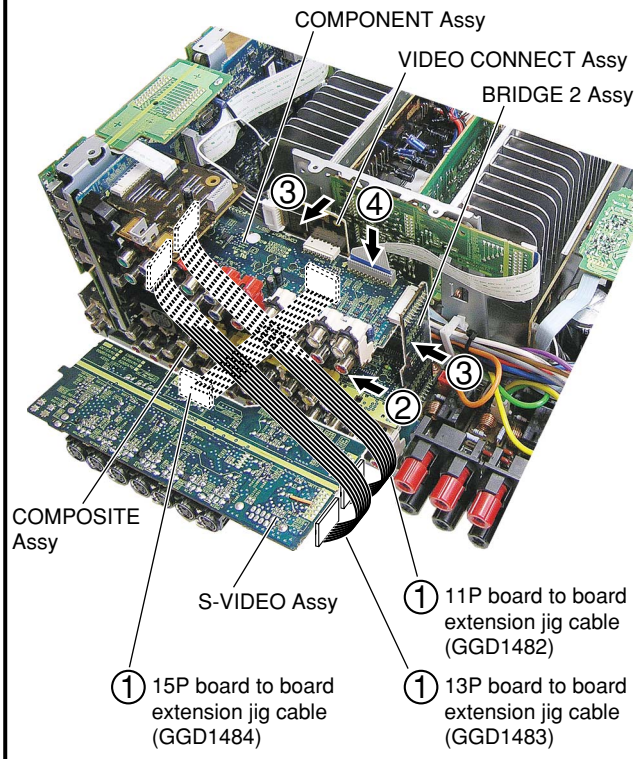
- 11P board to board extension jig cable (GGD1482)
- 13P board to board extension jig cable (GGD1483)
- 15P board to board extension jig cable (GGD1484)

① Connect the three extension jig cables.

② Reassembling the COMPONENT and COMPOSITE Assys.

③ Reassembling the BRIDGE 2 and VIDEO CONNECT Assys.

④ Connect the one flexible cable.



Diagnosis

● **COMPOSITE Assy**

Jig cable

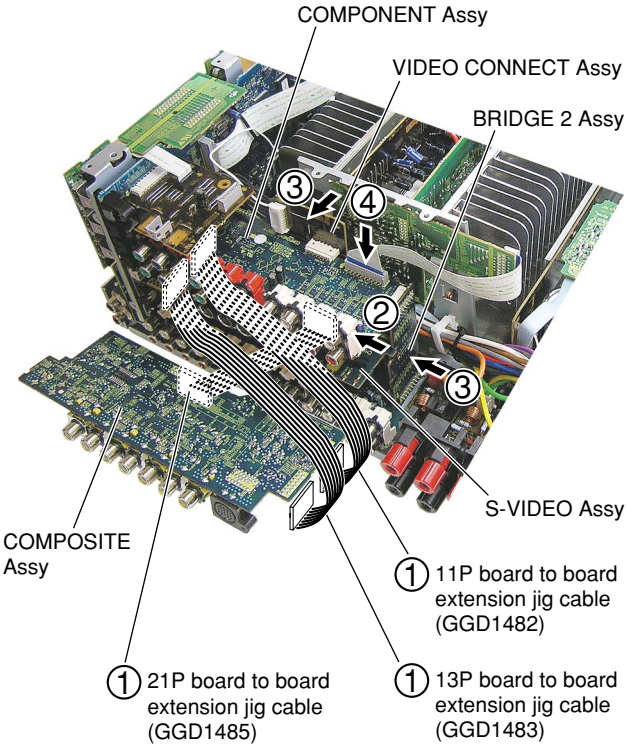
- 11P board to board extension jig cable (GGD1482)
- 13P board to board extension jig cable (GGD1483)
- 21P board to board extension jig cable (GGD1485)

① Connect the three extension jig cables.

② Reassembling the COMPONENT and S-VIDEO Assys.

③ Reassembling the BRIDGE 2 and VIDEO CONNECT Assys.

④ Connect the one flexible cable.



Diagnosis

7.2 PARTS
7.2.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

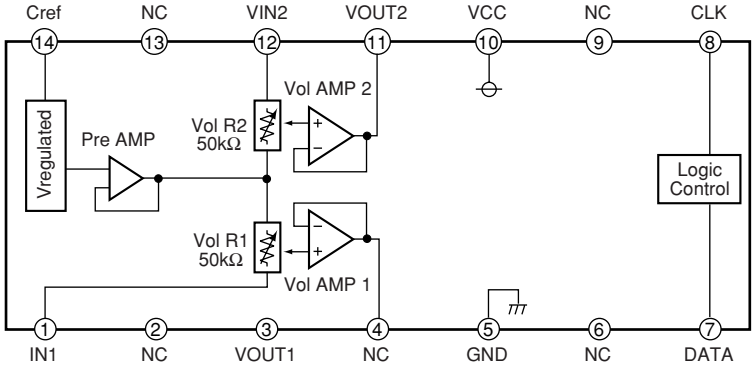
● **List of IC**

M61545FP, LA7109, PDC131A, PEG118A, PEG244A, TCC760HC01-AG, AAT4618IGV-0.5-1

■ M61545FP (COMPOSITE ASSY : IC1151)

• 2 ch Electronic Volime IC

● **Block Diagram**



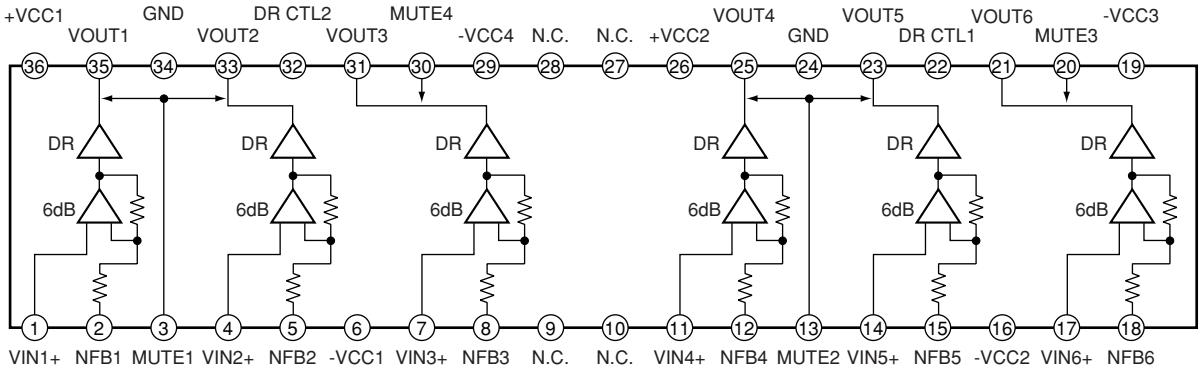
● **Pin Function**

No.	Pin Name	I/O	Pin Function
1	VIN1	I	1-ch input
2	NC	–	Non connection
3	VOUT1	O	1-ch output
4	NC	–	Non connection
5	GND	–	Ground
6	NC	–	Non connection
7	DATA	I	Control data input Inputs data in synchronization with clock.
8	CLK	I	Clock input pin for transferring serial data
9	NC	–	Non connection
10	VCC	–	Power supply
11	VOUT2	O	2-ch output
12	VIN2	I	2-ch input
13	NC	–	Non connection
14	Cref	I	Vref filter

LA7109 (COMPOSITE ASSY : IC1004), (S-VIDEO ASSY : IC1205)

• Video Amp IC

● Block Diagram



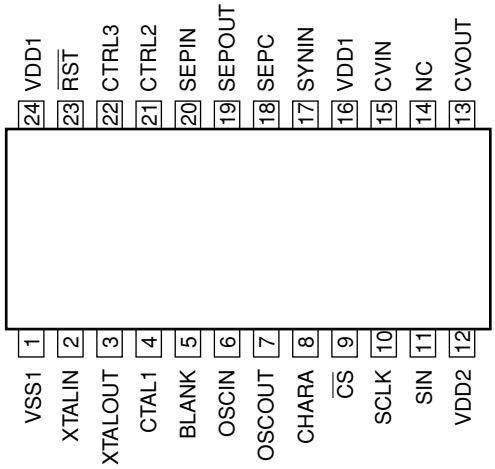
● Pin Function

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	VIN1+	I	Input pin	19	-VCC3	–	-VCC power supply
2	NFB1	I	Negative feedback pin of amp	20	MUTE3	I	Changeover pin of mute ability
3	MUTE1	I	Changeover pin of mute ability	21	VOUT6	O	Output pin
4	VIN2+	I	Input pin	22	DR CTL1	I	Changeover pin of drive ability
5	NFB2	I	Negative feedback pin of amp	23	VOUT5	O	Output pin
6	-VCC1	–	-VCC power supply	24	GND	–	Ground
7	VIN3+	I	Input pin	25	VOUT4	O	Output pin
8	NFB3	I	Negative feedback pin of amp	26	+VCC2	–	+VCC power supply
9	N.C.	–	Recommend connecting to -Vcc	27	N.C.	–	Recommend connecting to -Vcc
10	N.C.	–	Recommend connecting to -Vcc	28	N.C.	–	Recommend connecting to -Vcc
11	VIN4+	I	Input pin	29	-VCC4	–	-VCC power supply
12	NFB4	I	Negative feedback pin of amp	30	MUTE4	I	Changeover pin of mute ability
13	MUTE2	I	Changeover pin of mute ability	31	VOUT3	O	Output pin
14	VIN5+	I	Input pin	32	DR CTL2	I	Changeover pin of drive ability
15	NFB5	I	Negative feedback pin of amp	33	VOUT2	O	Output pin
16	-VCC2	–	-VCC power supply	34	GND	–	Ground
17	VIN6+	I	Input pin	35	VOUT1	O	Output pin
18	NFB6	I	Negative feedback pin of amp	36	+VCC1	–	+VCC power supply

■ PDC131A (COMPOSITE ASSY : IC1006)

• Character Generator IC

● Pin Arrangement (Top view)



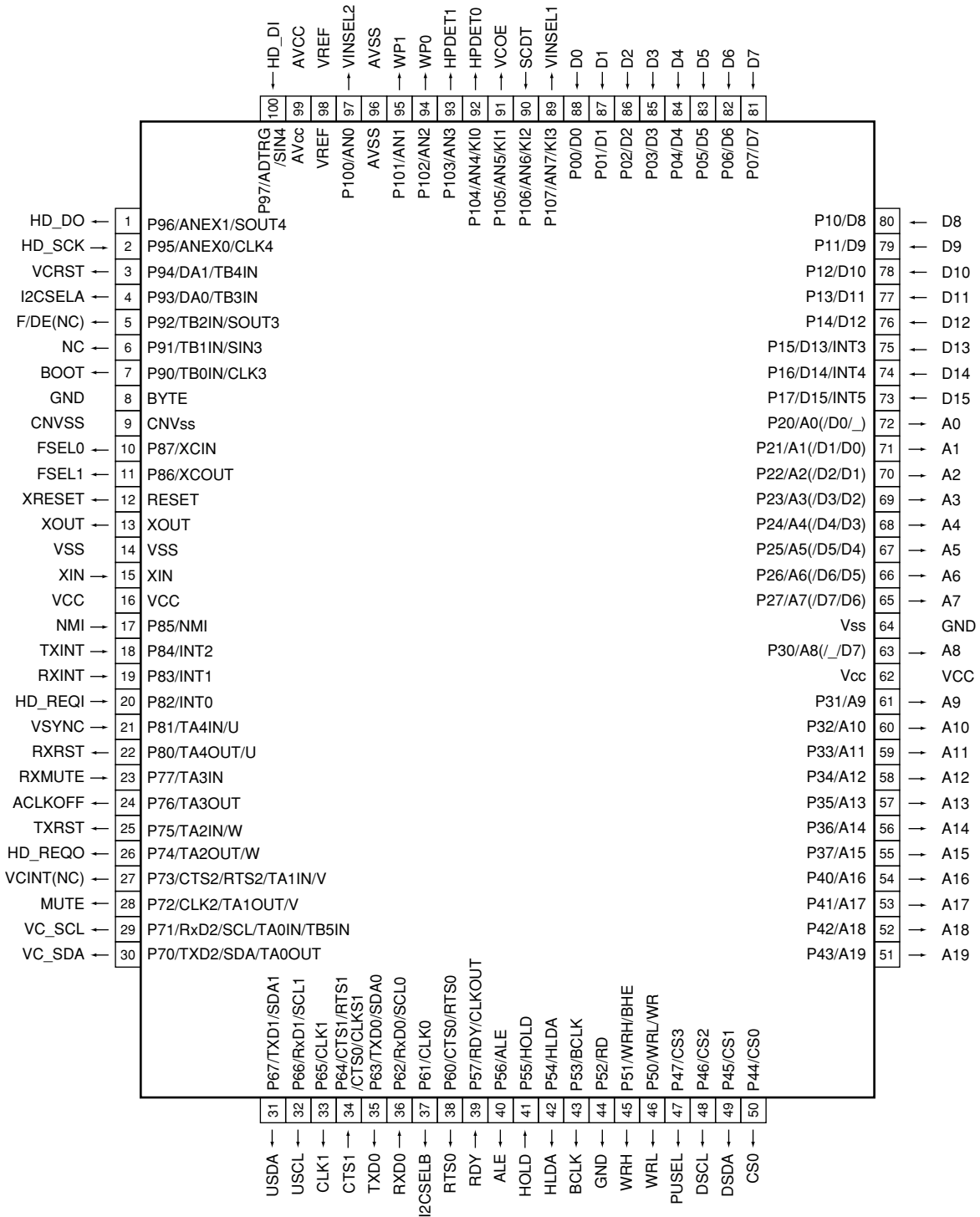
● Pin Function

No.	Pin Name	I/O	Pin Function
1	VSS1	–	Ground connection (digital system ground)
2	XtalIN	I	Crystal oscillator connection
3	XtalOUT	O	Crystal oscillator connection
4	CTRL1	I	Crystal oscillator input switching
5	BLANK	O	Outputs the blank signal
6	OSCIN	I	LC oscillator connection
7	OSCOUT	O	LC oscillator connection
8	CHARA	O	Outputs the character signal
9	$\overline{CS}$	I	Serial data input enable input
10	SCLK	I	Serial data input clock input
11	SIN	I	Serial data input
12	VDD2	–	Power supply
13	CVOUT	O	Composite video signal output
14	NC	–	Must be either connected to ground or left open.
15	CVIN	I	Composite video signal input
16	VDD1	–	Power supply (+5 V: digital system power supply)
17	SYNIN	I	Video signal input for the built-in sync separator circuit
18	SEPC	I	Built-in sync separator circuit bias voltage monitor pin
19	SEPOUT	O	Built-in sync separator circuit composite sync signal output
20	SEPIN	I	Inputs a vertical synchronization signal created by integrating the SEPOUT pin output signal
21	CTRL2	I	NTSC/PAL-M switching input
22	CTRL3	I	Control whether or not the VSYNC signal is input to the SEPIN input
23	$\overline{RST}$	I	System reset input
24	VDD1	–	Power supply (+5 V: digital system power supply)

■ PEG118A (HDMI & DVC ASSY : IC501)

• HDMI Microcomputer

● Pin Arrangement (Top view)



● **Pin Function**

No.	Mark	Pin Name	I/O	Pin Function
1	P96/ANEX1/SOUT4	HD_DO	O	Main controller communication DATA OUT
2	P95/ANEX0/CLK4	HD_SCK	I	Main controller communication CLOCK IN
3	P94/DA1/TB4IN	VCRST	O	ADV7401/ADV7172 RESET, (L: RESET)
4	P93/DA0/TB3IN	/1080P	O	TMDS amplitude switch (L:1080p, H: excepting 1080p)
5	P92/TB2IN/SOUT3	NC	O	OPEN
6	P91/TB1IN/SIN3	NC	O	OPEN
7	P90/TB0IN/CLK3	NC	O	OPEN
8	BYTE	BYTE	–	GND
9	CNVss	CNVSS	–	GND
10	P87/XCIN	NC	O	OPEN
11	P86/XCOUT	NC	O	OPEN
12	RESET	XRESET	I	Main controller communication RESET input (L: RESET)
13	XOUT	XOUT	O	XTAL
14	VSS	VSS	–	GND
15	XIN	XIN	I	XTAL
16	VCC	VCC	–	Power supply 3.3V
17	P85/NMI	NMI	I	Pull up with Vcc
18	P84/INT2	TXINT	I	Sil9030 interrupt
19	P83/INT1	RXINT	I	Sil9033 interrupt
20	P82/INT0	HD_REQI	I	Main controller communication REQ IN
21	P81/TA4IN/U	VSYNC	I	Sil9033 VSYNC input
22	P80/TA4OUT/U	RXRST	O	Sil9033 RESET (L: RESET)
23	P77/TA3IN	RXMUTE	I	Sil9033 MUTE IN
24	P76/TA3OUT	MCK_OFF	O	AUDIO MCK OFF (not used)
25	P75/TA2IN/W	TXRST	O	Sil9030 RESET (L: RESET)
26	P74/TA2OUT/W	HD_REQO	O	Main controller communication REQ OUT
27	P73/CTS2/RTS2/TA1IN/V	VCINT(NC)	O	ADV7401 interrupt (not used)
28	P72/CLK2/TA1OUT/V	MUTE	O	AUDIO MUTE (H: MUTE)
29	P71/RxD2/SCL/TA0IN/TB5IN	VC_SCL	O	I2C SCL(ADV7401/ADV7172)
30	P70/TXD2/SDA/TA0OUT	VC_SDA	O	I2C SDA(ADV7401/ADV7172)
31	P67/TXD1/SDA1	CSDA	O	I2C SDA(Sil9033/Sil9030)
32	P66/RxD1/SCL1	CSCL	O	I2C SCL(Sil9033/Sil9030)
33	P65/CLK1	CLK1(NC)	O	OPEN
34	P64/CTS1/RTS1/CTS0/CLKS1	CTS1(NC)	O	OPEN
35	P63/TXD0/SDA0	TXD0	O	RS232C TXD
36	P62/RxD0/SCL0	RXD0	I	RS232C RXD
37	P61/CLK0	NC	O	OPEN
38	P60/CTS0/RTS0	RTS0	O	RS232C RTS
39	P57/RDY/CLKOUT	RDY	I	Pull up with Vcc
40	P56/ALE	ALE	O	OPEN
41	P55/HOLD	HOLD	I	Pull up with Vcc
42	P54/HLDA	HLDA	O	OPEN
43	P53/BCLK	BCLK	O	Pull up with Vcc
44	P52/RD	RD	O	FLASH ROM I/F RD
45	P51/WRH/BHE	BHE	O	OPEN
46	P50/WRL/WR	WR	O	FLASH ROM I/F WR
47	P47/CS3	PUSEL	O	DDC communication pull-up resistor switch (L: Normal operation)
48	P46/CS2	NC	O	OPEN

No.	Mark	Pin Name	I/O	Pin Function
49	P45/CS1	NC	O	OPEN
50	P44/CS0	CS0	O	FLASH ROM I/F CS
51	P43/A19	NC	O	OPEN
52	P42/A18	A18	O	FLASH ROM I/F
53	P41/A17	A17	O	FLASH ROM I/F
54	P40/A16	A16	O	FLASH ROM I/F
55	P37/A15	A15	O	FLASH ROM I/F
56	P36/A14	A14	O	FLASH ROM I/F
57	P35/A13	A13	O	FLASH ROM I/F
58	P34/A12	A12	O	FLASH ROM I/F
59	P33/A11	A11	O	FLASH ROM I/F
60	P32/A10	A10	O	FLASH ROM I/F
61	P31/A9	A9	O	FLASH ROM I/F
62	Vcc	VCC	–	Power supply 3.3V
63	P30/A8(/㉓/D7)	A8	O	FLASH ROM I/F
64	Vss	GND	–	GND
65	P27/A7(/D7/D6)	A7	O	FLASH ROM I/F
66	P26/A6(/D6/D5)	A6	O	FLASH ROM I/F
67	P25/A5(/D5/D4)	A5	O	FLASH ROM I/F
68	P24/A4(/D4/D3)	A4	O	FLASH ROM I/F
69	P23/A3(/D3/D2)	A3	O	FLASH ROM I/F
70	P22/A2(/D2/D1)	A2	O	FLASH ROM I/F
71	P21/A1(/D1/D0)	A1	O	FLASH ROM I/F
72	P20/A0(/D0/㉙)	NC	O	OPEN
73	P17/D15/INT5	D15	I	FLASH ROM I/F
74	P16/D14/INT4	D14	I	FLASH ROM I/F
75	P15/D13/INT3	D13	I	FLASH ROM I/F
76	P14/D12	D12	I	FLASH ROM I/F
77	P13/D11	D11	I	FLASH ROM I/F
78	P12/D10	D10	I	FLASH ROM I/F
79	P11/D9	D9	I	FLASH ROM I/F
80	P10/D8	D8	I	FLASH ROM I/F
81	P07/D7	D7	I	FLASH ROM I/F
82	P06/D6	D6	I	FLASH ROM I/F
83	P05/D5	D5	I	FLASH ROM I/F
84	P04/D4	D4	I	FLASH ROM I/F
85	P03/D3	D3	I	FLASH ROM I/F
86	P02/D2	D2	I	FLASH ROM I/F
87	P01/D1	D1	I	FLASH ROM I/F
88	P00/D0	D0	I	FLASH ROM I/F
89	P107/AN7/KI3	I2S_OFF	O	Audio data control I2S data OFF (H: OFF)
90	P106/AN6/KI2	SCDT	I	SiI9033 SCDT input
91	P105/AN5/KI1	VCOE	O	Video data select (L: HDMI, H: Analog VIDEO)
92	P104/AN4/KI0	HPDET0	O	Hot Plug Detect control (IN1)
93	P103/AN3	HPDET1	O	Hot Plug Detect control (IN2)
94	P102/AN2	WP0	O	EDID1 E2PROM WP control (L: Normal operation, H: Writing)
95	P101/AN1	WP1	O	EDID2 E2PROM WP control (L: Normal operation, H: Writing)
96	AVSS	AVSS	–	GND
97	P100/AN0	DSD_OFF	O	Audio data control DSD data OFF (H: OFF)
98	VREF	VREF	–	Reference voltage 3.3V
99	AVcc	AVCC	–	Power supply 3.3V
100	P97/ADTRG/SIN4	HD_DI	I	Main controller communication (DATA IN)

PEG244A (MAIN CONTROL ASSY : IC101)

• Main Microcomputer

● Pin Function

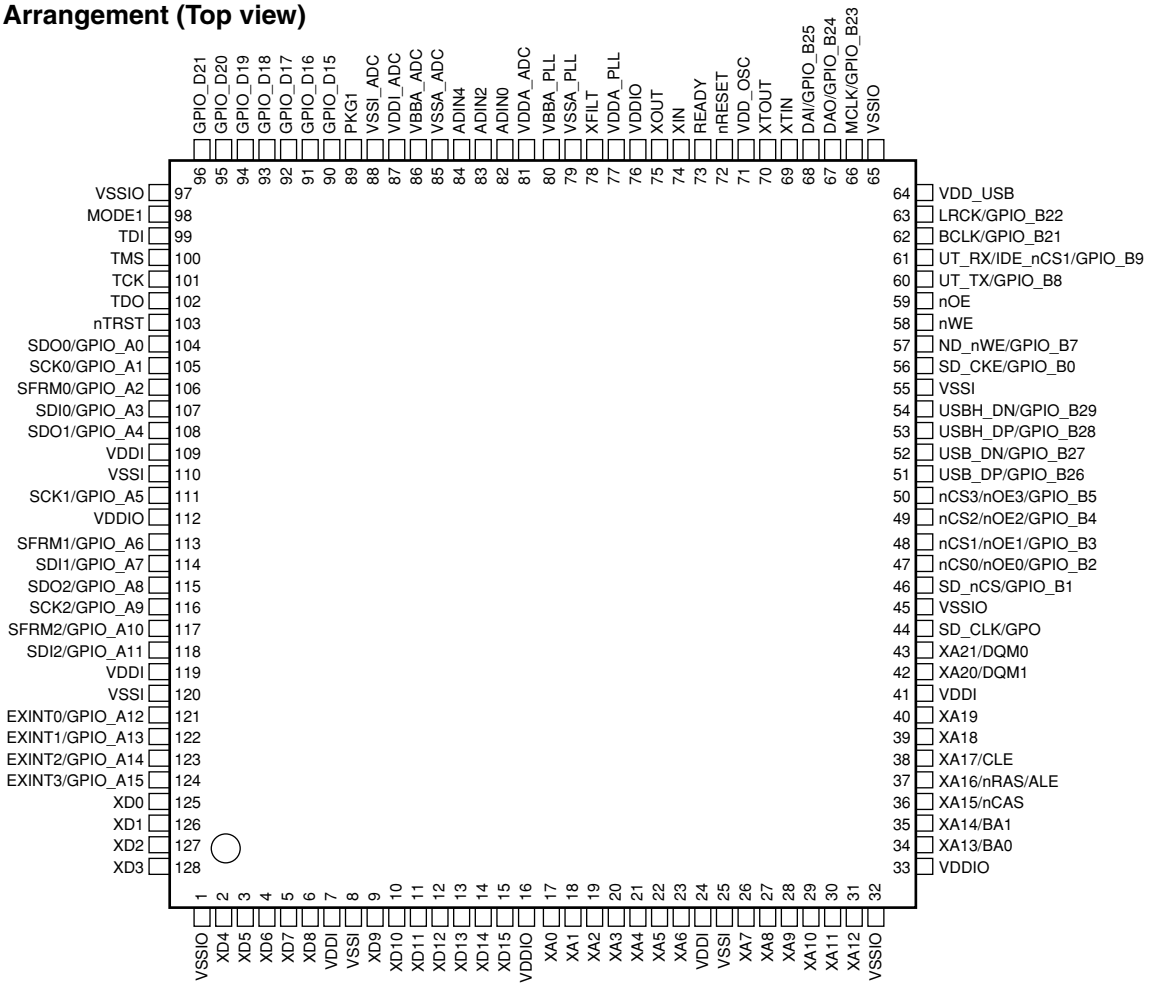
No.	Mark	Pin Name	I/O	Pin Function
1	P96/ANEX1/SOUT4	USB DI	O/L	Communication data output with the USB module
2	P95/ANEX0/CLK4	USB CK	I	Communication clock input with the USB module
3	P94/DA1/TB4IN	USB TREQ	I	Communication request signal from the USB module
4	P93/DA0/TB3IN	USB POWER ERR	I	Error signal from the USB module
5	P92/TB2IN/SOUT3	DISP DI	O/L	Communication data-out signal with the display microcomputer
6	P91/TB1IN/SIN3	DISP DO	I	Communication data-in signal with the display microcomputer
7	P90/TB0IN/CLK3	DISP CLK	O/L	Communication clock signal with the display microcomputer
8	BYTE	GND	-	GND
9	CNVss	CNVSS	-	Pull-down with 5.1k
10	P87/XCIN	I2C CK(EEPROM/DVC)	O/L	I2C communication clock signal with EEPROM and DVC
11	P86/XCOUT	I2C DT(EEPROM/DVC)	O/L	I3C communication data signal with EEPROM and DVC
12	RESET	XRESET	-	RESET
13	XOUT	XOUT	-	Connect an X'tal
14	VSS	GND	-	GND
15	XIN	XIN	-	Connect an X'tal
16	VCC	5V	-	Power supply 5V
17	P85/NMI	NMI	I	Use is impossible as usual input port 100k pull-up
18	P84/INT2	ACIN(WAKEUP)	I	AC pulse IN (wakeup)
19	P83/INT1	OL DET	I	OVERLOAD detecytion circuit (L: abnormal)
20	P82/INT0	1W WUP	I	Wakeup signal at standby (from the display microcomputer)
21	P81/TA4IN/U	DISP RST	O/L	Display microcomputer reset signal
22	P80/TA4OUT/U	DISP EN	O/L	Communication enabling signal to the display microcomputer
23	P77/TA3IN	DISP RDY	I	Communication enabling signal from the display microcomputer
24	P76/TA3OUT	OSD DT/EXP DT	O/L	Communication data with the OSD IC and expansion IC
25	P75/TA2IN/W	OSD CLK/EXP CLK	O/L	Communication clocki with the OSD IC and expansion IC
26	P74/TA2OUT/W	EXP OE	O/L	OE signal to the expansion IC
27	P73/CTS2/RTS2/TA1IN/V	EXP ST	O/L	ST signal to the expansion IC
28	P72/CLK2/TA1OUT/V	USB HREQ	O/L	Communication enabling signal to the USB module
29	P71/RxD2/SCL/TA0IN/TB5IN	RX(XM)	O/L	XM communication data input
30	P70/TXD2/SDA/TA0OUT	TX(XM)	I	XM communication data output
31	P67/TXD1	TX(SR+)/JIGU	O/L	SR+ communication data output, for Mitsubishi jig rewriting (data output)
32	P66/RxD1	RX(SR+)/JIGU	I	SR+ communication data input, for Mitsubishi jig rewriting (data input)
33	P65/CLK1	232C CLK(JIGU)	O/L	It is necessary when rewrites it with Mitsubishi jig.
34	P64/CTS1/RTS1/CLKS1	232C CTS(JIGU)	O/L	For Mitsubishi jig rewriting (communication permission)
35	P63/TXD0	DSP DI	O/L	Communication data-out signal with Motorola DSP and DIR
36	P62/RxD0	DSP DO	I	Communication data-in signal with Motorola DSP
37	P61/CLK0	DSP CLK	O/L	Communication clock signal with Motorola DSP and DIR
38	P60/CTS0/RTS0	DSP RST	O/L	Reset signal of Motorola DSP
39	P57/RDY/CLKOUT	DSP SS	O/L	Slave select signal to Motorola DSP
40	P56/ALE	BUSY	I	Use at MCACC
41	P55/HOLD	DSP HREQ	I	Error detection dignal of Motorola DSP
42	P54/HLDA	DSP MOD	O/L	Mode selection of Motorola DSP (ROM/RAM)
43	P53/BCLK	DSP MUTE	O/L	DSP-ASSY mute
44	P52/RD	ADMD	O/L	DSP Analog/Digital
45	P51/WRH/BHE	DIR DO	I	Communication data-in signal with the DIR/DAC
46	P50/WRL/WR	DIR CS	O/L	Communication chip select signal with the DIR/DAC
47	P47/CS3	LSSN	O/L	DSP SP= LSSN setting
48	P46/CS2	DIR CDC RST	O/L	DIR CODEC reset signal

No.	Mark	Pin Name	I/O	Pin Function
49	P45/CS1	DIR ERR	I	Lock/Unlock signal
50	P44/CS0	XTL0	O/L	DIR X'tal switching
51	P43/A19	RY_B	O/L	Speaker B relay ON/OFF
52	P42/A18	RY_C/R	O/L	Rear/Center relay ON/OFF
53	P41/A17	RY_A	O/L	Speaker A relay ON/OFF
54	P40/A16	RY-HP	O/H	HP relay
55	P37/A15	RY-AC	O/L	AC relay ON/OFF
56	P36/A14	SBMUTE	O/L	MUTE for SB ch (L: MUTE)
57	P35/A13	AMUTE	O/L	System mute
58	P34/A12	LOW_CONSUMPTION	O/L	Power control of the audio mute circuit (Turn off the power for power-saving)
59	P33/A11	MR MUTE	O/L	MR MUTE circuit (L: MUTE)
60	P32/A10	GAIN_SE	O/L	Not used
61	P31/A9	EVR CLK	O/L	Communication clock with the main electronic volume and sub electronic volume
62	Vcc	5V	–	Power supply 5V
63	P30/A8(/_/D7)	EVR DT	O/L	Communication data with the main electronic volume
64	Vss	GND	–	GND
65	P27/A7(/D7/D6)	SY DET	I	S-VIDEO signal detection
66	P26/A6(/D6/D5)	NECK 8	O/L	Limitter circuit control output
67	P25/A5(/D5/D4)	NECK 6	O/L	Limitter circuit control output
68	P24/A4(/D4/D3)	XM POW	O/L	XM antenna power supply
69	P23/A3(/D3/D2)	NC	O/L	NC
70	P22/A2(/D2/D1)	NC	O/L	NC
71	P21/A1(/D1/D0)	DSP OVERLOAD	I	ANALOG OVER LOAD detection (H at detection)
72	P20/A0(/D0/_)	DECO MUTE	I	DSP boot success detection port
73	P17/D15/INT5	NC	O/L	NC
74	P16/D14/INT4	DC PROT	I	DC detection input, it is not interrupt
75	P15/D13/INT3	RDS CK/XM LOW SPEED	I	RDSmodule clock-in signal
76	P14/D12	RDS DT/LINK ACTIVE(XM)	I	RDS module data-in signal
77	P13/D11	RDS FM+/XM RST	O/L	Power ON/OFF of RDS decoder, XM RESET
78	P12/D10	WAKE_UPB (XM)	I	For XMDT communication
79	P11/D9	XM Signal Sw	O/L	XM/DIR switch
80	P10/D8	XM Common Select	O/L	XM COMMAND SELECT: not used
81	P07/D7	TUNER DO	I	Tuner control data-in signal
82	P06/D6	TUNER CLK	O/L	Tuner control clock signal
83	P05/D5	TUNER DI	O/L	Tuner control data-out signal
84	P04/D4	TUNER CE	O/L	Tuner control chip select signal
85	P03/D3	MRVOL	O/L	EVOL communication data for SUBROOM
86	P02/D2	OSD RST	O/L	OSD IC RESET
87	P01/D1	OSD CS	O/L	OSD IC control CS
88	P00/D0	XM Fs	I	FS detecting signal of XM signal, new LSI correspondence
89	P107/AN7/KI3	WATT IN	I	Wattage detection
90	P106/AN6/KI2	HDMI hotplug det	I	HotPlug detection of sink side
91	P105/AN5/KI1	FAN DRIVE	O/L	ON when turns the fan
92	P104/AN4/KI0	FAN STOP	I	Fan forced stop detection
93	P103/AN3	TEMP_1	I	Temperature detection
94	P102/AN2	SIMUKE1	I	Destination reading 1
95	P101/AN1	SIMUKE2	I	Destination reading 2
96	AVSS	AVSS	–	Connect to VSS
97	P100/AN0	XM ERR	I	XM abnormal detection
98	VREF	VREF	–	Connect to VCC
99	AVcc	AVCC	–	Connect to VCC
100	P97/ADTRG/SIN4	USB DO	I	Communication data input with the USB module

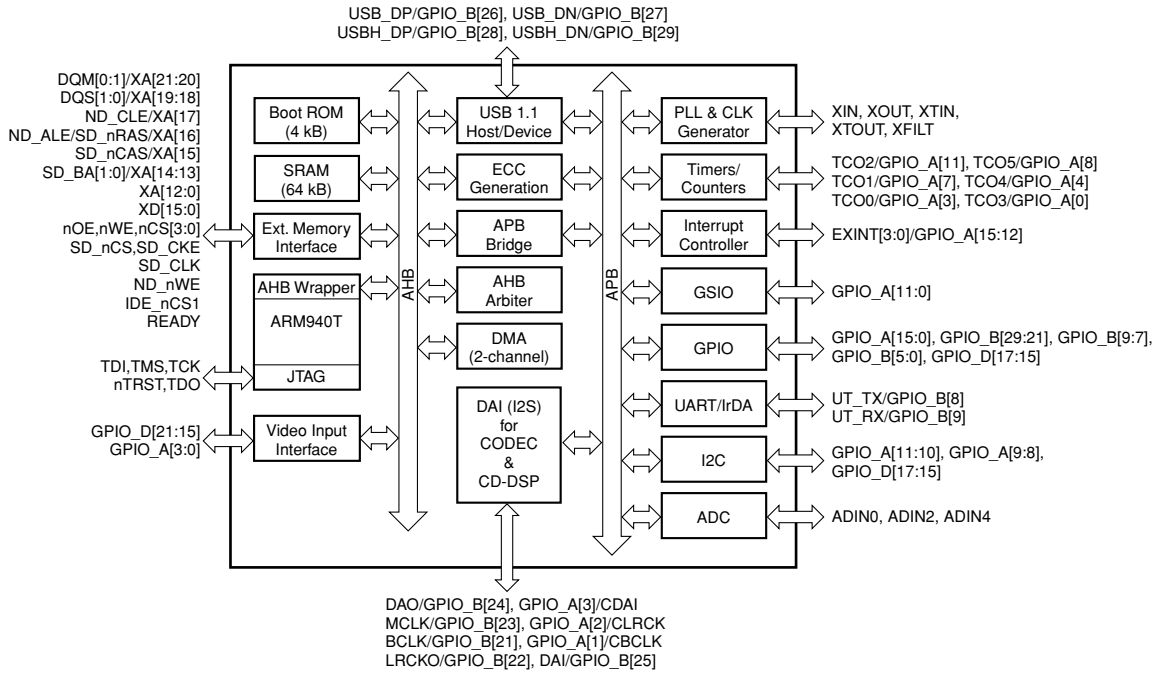
■ TCC760HC01-AG (USB ASSY : IC701)

• USB Media Control IC

● Pin Arrangement (Top view)



● Block Diagram



● Pin Functions

No.	Pin Name	I/O	Pin Function
1	VSSIO	–	Digital ground for I/O
2	XD4	I/O	External bus data bit [4]
3	XD5	I/O	External bus data bit [5]
4	XD6	I/O	External bus data bit [6]
5	XD7	I/O	External bus data bit [7]
6	XD8	I/O	External bus data bit [8]
7	VDDI	–	Digital power supply for internal core (1.8 V)
8	VSSI	–	Digital ground for internal
9	XD9	I/O	External bus data bit [9]
10	XD10	I/O	External bus data bit [10]
11	XD11	I/O	External bus data bit [11]
12	XD12	I/O	External bus data bit [12]
13	XD13	I/O	External bus data bit [13]
14	XD14	I/O	External bus data bit [14]
15	XD15	I/O	External bus data bit [15]
16	VDDIO	–	Digital power supply for I/O (1.8 V to 3.3 V)
17	XA0	I/O	External bus address bit [0]
18	XA1	I/O	External bus address bit [1]
19	XA2	I/O	External bus address bit [2]
20	XA3	I/O	External bus address bit [3]
21	XA4	I/O	External bus address bit [4]
22	XA5	I/O	External bus address bit [5]
23	XA6	I/O	External bus address bit [6]
24	VDDI	–	Digital power supply for internal core (1.8 V)
25	VSSI	–	Digital ground for internal
26	XA7	I/O	External bus address bit [7]
27	XA8	I/O	External bus address bit [8]
28	XA9	I/O	External bus address bit [9]
29	XA10	I/O	External bus address bit [10]
30	XA11	I/O	External bus address bit [11]
31	XA12	I/O	External bus address bit [12]
32	VSSIO	–	Digital ground for I/O
33	VDDIO	–	Digital power supply for I/O (1.8 V to 3.3 V)
34	XA13/BA0	I/O	External bus address bit [13] / SDRAM bank address 0
35	XA14/BA1	I/O	External bus address bit [14] / SDRAM bank address 1
36	XA15/nCAS	I/O	External bus address bit [15] / SDRAM CAS signal
37	XA16/nRAS/ALE	I/O	External bus address bit [16] / SDRAM RAS signal / ALE for NAND flash
38	XA17/CLE	I/O	External bus address bit [17] / CLE for NAND flash
39	XA18	I/O	External bus address bit [18]
40	XA19	I/O	External bus address bit [19]
41	VDDI	–	Digital power supply for internal core (1.8 V)
42	XA20/DQM1	I/O	External bus address bit [20] / Data I/O mask 1
43	XA21/DQM0	I/O	External bus address bit [21] / Data I/O mask 0
44	SD_CLK/GPO	I/O	SDRAM clock / GPO, SD_CLK can be used as a general purpose output.
45	VSSIO	–	Digital ground for I/O
46	SD_nCS/GPIO_B1	I/O	Chip select signal for SDRAM, active low / GPIO_B[1]
47	nCS0/nOE0/GPIO_B2	I/O	External bus chip select [0] / NAND flash output enable [0] / GPIO_B[2]
48	nCS1/nOE1/GPIO_B3	I/O	External bus chip select [1] / NAND flash output enable [1] / GPIO_B[3]
49	nCS2/nOE2/GPIO_B4	I/O	External bus chip select [2] / NAND flash output enable [2] / GPIO_B[4]
50	nCS3/nOE3/GPIO_B5	I/O	External bus chip select [3] / NAND flash output enable [3] / GPIO_B[5]

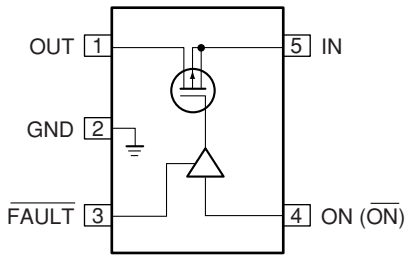
No.	Pin Name	I/O	Pin Function
51	USB_DP/GPIO_B26	I/O	USB function D+ signal / GPIO_B[26]
52	USB_DN/GPIO_B27	I/O	USB function D- signal / GPIO_B[27]
53	USBH_DP/GPIO_B28	I/O	USB host D+ signal / GPIO_B[28]
54	USBH_DN/GPIO_B29	I/O	USB host D- signal / GPIO_B[29]
55	VSSI	–	Digital ground for internal
56	SD_CKE/GPIO_B0	I/O	SDRAM clock enable signal, active high / GPIO_B[0]
57	ND_nWE/GPIO_B7	I/O	NAND flash WE, active low / GPIO_B[7]
58	nWE	I/O	Static memory write enable signal, active low
59	nOE	I/O	Static memory output enable signal, active low
60	UT_TX/GPIO_B8	I/O	UART or IrDA TX data / GPIO_B[8]
61	UT_RX/IDE_nCS1/GPIO_B9	I/O	UART or IrDA RX data / IDE chip select 1 / GPIO_B[9]
62	BCLK/GPIO_B21	I/O	I2S bit clock / GPIO_B[21]
63	LRCK/GPIO_B22	I/O	I2S word clock / GPIO_B[22]
64	VDD_USB	–	Power supply for USB I/O (3.3 V)
65	VSSIO	–	Digital ground for I/O
66	MCLK/GPIO_B23	I/O	I2S system clock / GPIO_B[23]
67	DAO/GPIO_B24	I/O	I2S digital audio data output / GPIO_B[24]
68	DAI/GPIO_B25	I/O	I2S digital audio data input / GPIO_B[25]
69	XTIN	I	Sub crystal oscillator input (32.768 kHz)
70	XTOUT	O	Sub crystal oscillator output (32.768 kHz)
71	VDD_OSC	–	Digital power supply for oscillators (1.8 V)
72	nRESET	I	System reset, active low
73	READY	I	Ready information from external device
74	XIN	I	Main crystal oscillator input for PLL (12 MHz)
75	XOUT	O	Main crystal oscillator output for PLL (12 MHz)
76	VDDIO	–	Digital power supply for I/O (1.8 V to 3.3 V)
77	VDDA_PLL	–	Analog and digital power supply for PLL (1.8 V)
78	XFILT	AO	PLL filter output
79	VSSA_PLL	–	Analog ground for PLL
80	VBBA_PLL	–	Analog ground for PLL
81	VDDA_ADC	–	Analog power supply for ADC (3.3 V)
82	ADIN0	AI	General purpose multi-channel ADC input 0
83	ADIN2	AI	General purpose multi-channel ADC input 2
84	ADIN4	AI	General purpose multi-channel ADC input 4
85	VSSA_ADC	–	Analog ground for ADC
86	VBBA_ADC	–	Analog ground for ADC
87	VDDI_ADC	–	Digital power supply for ADC (1.8 V)
88	VSSI_ADC	–	Digital ground for ADC
89	PKG1	I	Package ID 1, pull-up for normal operation
90	GPIO_D15	I/O	GPIO_D[15]
91	GPIO_D16	I/O	GPIO_D[16]
92	GPIO_D17	I/O	GPIO_D[17]
93	GPIO_D18	I/O	GPIO_D[18]
94	GPIO_D19	I/O	GPIO_D[19]
95	GPIO_D20	I/O	GPIO_D[20]
96	GPIO_D21	I/O	GPIO_D[21]
97	VSSIO	–	Digital ground for I/O
98	MODE1	I	Mode select input 1, Pull-down for normal operation.
99	TDI	I	JTAG serial data input for ARM940T
100	TMS	I	JTAG test mode select for ARM940T

No.	Pin Name	I/O	Pin Function
101	TCK	I	JTAG test clock for ARM940T
102	TDO	I/O	JTAG serial data output for ARM940T
103	nTRST	I	JTAG reset signal for ARM940T, active low
104	SDO0/GPIO_A0	I/O	Serial data output 0 / GPIO_A[0]
105	SCK0/GPIO_A1	I/O	Serial clock input 0 / GPIO_A[1]
106	SFRM0/GPIO_A2	I/O	Serial frame 0 / GPIO_A[2]
107	SDI0/GPIO_A3	I/O	Serial data input 0 / GPIO_A[3]
108	SDO1/GPIO_A4	I/O	Serial data output 1 / GPIO_A[4]
109	VDDI	–	Digital power supply for internal core (1.8 V)
110	VSSI	–	Digital ground for internal
111	SCK1/GPIO_A5	I/O	Serial clock input 1 / GPIO_A[5]
112	VDDIO	–	Digital power supply for I/O (1.8 V to 3.3 V)
113	SFRM1/GPIO_A6	I/O	Serial frame 1 / GPIO_A[6]
114	SDI1/GPIO_A7	I/O	Serial data input 1 / GPIO_A[7]
115	SDO2/GPIO_A8	I/O	Serial data output 2 / GPIO_A[8]
116	SCK2/GPIO_A9	I/O	Serial clock input 2 / GPIO_A[9]
117	SFRM2/GPIO_A10	I/O	Serial frame 2 / GPIO_A[10]
118	SDI2/GPIO_A11	I/O	Serial data input 2 / GPIO_A[11]
119	VDDI	–	Digital power supply for internal core (1.8 V)
120	VSSI	–	Digital ground for internal
121	EXINT0/GPIO_A12	I/O	External interrupt request [0] / GPIO_A[12]
122	EXINT1/GPIO_A13	I/O	External interrupt request [1] / GPIO_A[13]
123	EXINT2/GPIO_A14	I/O	External interrupt request [2] / GPIO_A[14]
124	EXINT3/GPIO_A15	I/O	External interrupt request [3] / GPIO_A[15]
125	XD0	I/O	External bus data bit [0]
126	XD1	I/O	External bus data bit [1]
127	XD2	I/O	External bus data bit [2]
128	XD3	I/O	External bus data bit [3]

■ AAT4618IGV-0.5-1 (USB ASSY : IC771)

• Load Switching IC

● Pin Arrangement (Top view)

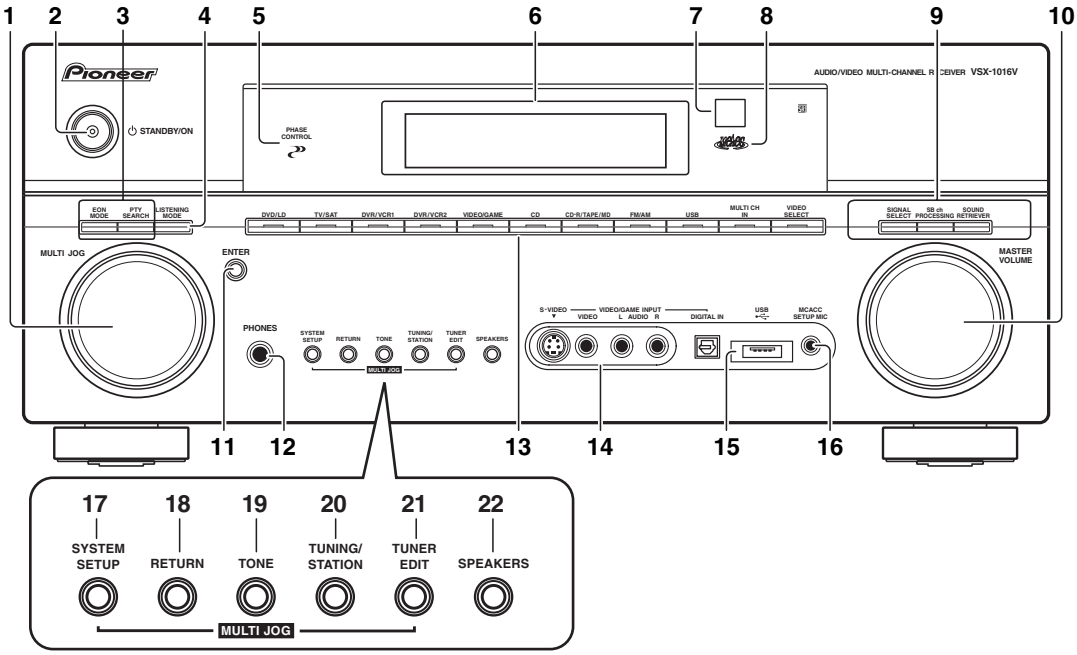


● Pin Function

No.	Pin Name	I/O	Pin Function
1	OUT	O	P-channel MOS FET drain
2	GND	–	Ground
3	$\overline{\text{FAULT}}$	O	Open-drain $\overline{\text{FAULT}}$ output
4	ON ($\overline{\text{ON}}$)	I	Enable input: 4618 active low, 4618- active high
5	IN	I	P-channel MOS FET source

8. PANEL FACILITIES

Front panel



1 MULTI JOG dial
Use the **MULTI JOG** dial to select various settings and menu options.

2 ⏻ STANDBY/ON
Switches the receiver between on and standby. Power indicator lights when the receiver is on.

3 EON MODE
Use to search for programs that are broadcasting traffic or news information.
PTY SEARCH
Use this button to search for RDS program types.

4 LISTENING MODE
Use with the **MULTI JOG** dial to select the various listening modes.

5 PHASE CONTROL indicator
Lights when Basic Phase Control is switched on.

6 Character display

7 Remote sensor
Receives the signals from the remote control.

8 MCACC indicator
Lights when Acoustic Calibration EQ is on (Acoustic Calibration EQ is automatically set to **ALL CH ADJUST** after the Auto MCACC Setup or EQ Auto Setup).

9 SIGNAL SELECT
Use to select an input signal.
SBch PROCESSING - Selects the surround back channel mode or virtual surround back mode.
SOUND RETRIEVER - Press to restore CD quality sound to compressed audio sources.

10 MASTER VOLUME dial

11 ENTER

12 PHONES jack
Use to connect headphones. When the headphones are connected, there is no sound output from the speakers.

13 Input source buttons
Press to select an input source (press **VIDEO SELECT** repeatedly to select the video source).

14 VIDEO/GAME INPUT

15 USB interface
Connect a USB audio device for playback .

16 MCACC SETUP MIC jack
Use to connect the supplied microphone.

17 SYSTEM SETUP
Press to access the System Setup menu.

18 RETURN
Press to confirm and exit the current menu screen.

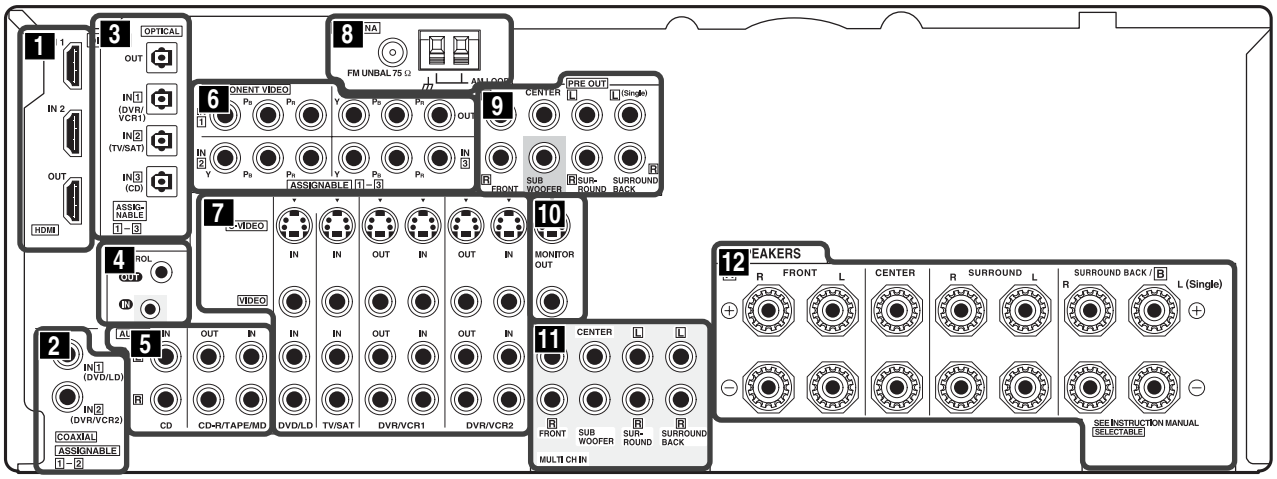
19 TONE
Press this button to access the bass and treble controls, which you can then adjust with the **MULTI JOG** dial.

20 TUNING/STATION
Use to find radio frequencies and to select preset stations.

21 TUNER EDIT
Use with the **MULTI JOG** dial to memorize and name stations for recall.

22 SPEAKERS
Use to change the speaker system.

Rear panel



Caution

- Before making or changing the connections, switch off the power and disconnect the power cord from the power outlet. Plugging in should be the final step.

1 HDMI connectors (x3)
Two inputs and one output for high-quality audio/video connection to compatible HDMI devices.
→ Connecting using HDMI.

2 Coaxial digital audio inputs (x2)
Use for digital audio sources, including DVD players/ recorders, digital satellite receivers, CD players, etc.

3 Optical digital audio output / input(s) (x4)
Use the **OUT** jack for recording to a CD or MiniDisc recorder.
→ Connecting digital audio sources.
Use the **IN** jacks for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

4 Control input/output
Use to connect other Pioneer components so that you can control all your equipment from a single IR remote sensor.
→ Operating other Pioneer components with this unit's sensor.

5 Stereo analog audio source inputs/(outputs) (x3)
Use for connection to audio sources such as CD players, tape decks, turntables, etc.
→ Connecting analog audio sources.

6 Component video connections (x4)
Use the inputs to connect any video source that has component video output, such as a DVD recorder. Use the output for connection to a monitor or TV.
→ Using the component video jacks.

7 Audio/video source inputs/(outputs) (x6)
Use for connection to audio/visual sources, such as DVD players/recorders, VCRs, etc. Each set of inputs has jacks for composite video, S-video and stereo analog audio.
→ Connecting a DVD/HDD recorder, VCR and other video sources.

8 AM and FM antenna terminals
Use to connect indoor or outdoor antennas for radio broadcasts.
→ Connecting antennas.

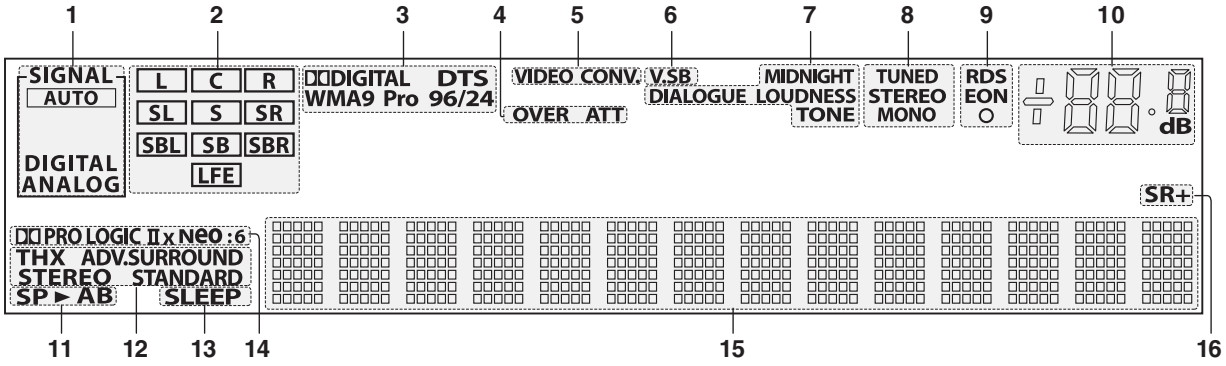
9 Multichannel pre-amplifier outputs
Use to connect separate amplifiers for front, center, surround, surround back and subwoofer channels.
→ Connecting additional amplifiers.

10 Composite and S-video monitor outputs
Use to connect monitors and TVs.
→ Connecting your TV and DVD player.

11 Multichannel analog audio inputs
7.1 channel inputs for connection to a DVD player with multichannel analog outputs.
→ Connecting the multichannel analog inputs.

12 Speaker terminals
Use for connection to the main front, center, surround and surround back speakers.
→ Installing your speaker system.

Display



1 SIGNAL indicators
Light to indicate the currently selected input signal.
AUTO lights when the receiver is set to select the input signal automatically.

2 Program format indicators
These change according to which channels are active in digital sources.
- **L** - Left front channel
- **C** - Center channel
- **R** - Right front channel
- **SL** - Left surround channel
- **S** - Surround channel (mono)
- **SR** - Right surround channel
- **SBL** - Left surround back channel
- **SB** - Surround back channel (mono)
- **SBR** - Right surround back channel
- **LFE** - Low frequency effects channel

3 Digital format indicators
Light when a signal encoded in the corresponding format is detected.

4 OVER / ATT
OVER lights to indicate that the level of an analog source is too high. **ATT** lights when you use the attenuator (**ANALOG ATT**) to reduce it.

5 VIDEO CONV.
Lights when digital video conversion is enabled.

6 V.SB
Lights during Virtual surround back processing.

7 Sound processing indicators
Light according to the active sound processing feature.

8 TUNER indicators
- **TUNED** - Lights when a broadcast is being received.
- **STEREO** - Lights when a stereo FM broadcast is being received in auto stereo mode.
- **MONO** - Lights when the mono mode is set using the **MPX** button.

9 EON / RDS indicators
- **EON** - Lights when the EON mode is set (flashes during EON reception). The ○ indicator lights when the current station carries the EON service.
- **RDS** - Lights when an RDS broadcast is received.

10 Master volume level

11 Speaker indicators
Indicate the current speaker system, **A** and/or **B**.

12 Listening mode indicators
- **THX** - Lights when a Home THX mode is selected.
- **ADV. SURROUND** - Lights when an Advanced Surround mode has been selected.
- **STEREO** - Lights when stereo listening is switched on.
- **STANDARD** - Lights when a Standard Surround mode is switched on.

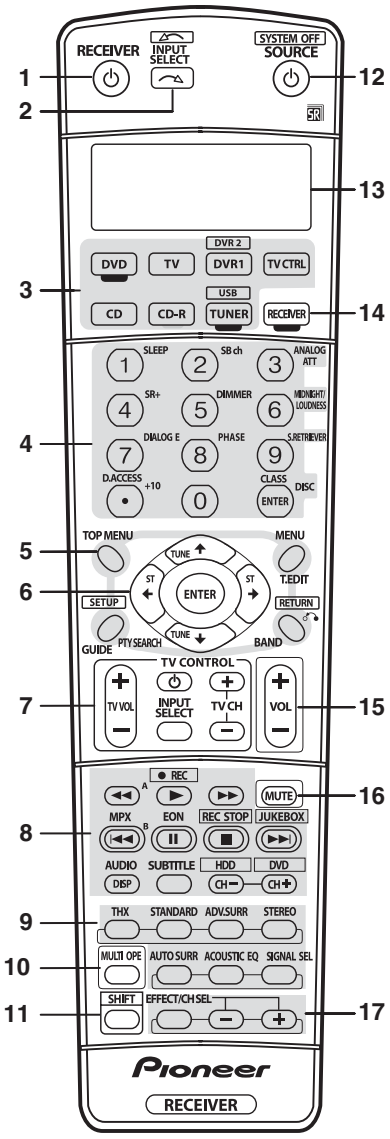
13 SLEEP
Lights when the receiver is in sleep mode.

14 Matrix decoding format indicators
- **PRO LOGIC IIx** - This lights to indicate Pro Logic II / Pro Logic IIx decoding.
- **Neo: 6** - When one of the Neo:6 modes of the receiver is on, this lights to indicate Neo: 6 processing.

15 Character display
Displays various system information.

16 SR+
Lights when the SR+ mode is switched on.

Remote control



The remote has been conveniently color-coded according to component control using the following system (press the corresponding input source button to access):

- **Green** - Receiver controls (see below)
- **Red** - DVD controls
- **Blue** - Tuner controls
- **White** - Other controls

1 RECEIVER ⏻

This switches between standby and on for this receiver.

2 INPUT SELECT

Use to select the input source (use **SHIFT** for **INPUT SELECT**).

3 Input source buttons

Press to select control of other components.

4 Number buttons and other receiver/component controls

Use the number buttons to directly select a radio frequency or the tracks on a CD, DVD, etc.

DISC (ENTER) can be used to enter commands for TV or DTV, and also to select a disc in a multi-CD player.

Press **RECEIVER** first to access:

SLEEP - Use to put the receiver in sleep mode and select the amount of time before sleep.

SBch - Use to select the surround/virtual back channel mode.

ANALOG ATT - Attenuates (lowers) the level of an analog input signal to prevent distortion.

SR+ - Switches the SR+ mode on/off.

DIMMER - Dims or brightens the display.

MIDNIGHT/LOUDNESS - Use Midnight when listening to movie soundtracks at low volume. Use Loudness to boost the bass and treble at low volume.

DIALOG E - Use to make dialog stand out when watching TV or a movie.

PHASE - Press to switch on/off Basic Phase Control.

S. RETRIEVER - Press to restore CD quality sound to compressed audio sources.

Press **TUNER** first to access:

D.ACCESS - After pressing, you can access a radio station directly using the number buttons.

CLASS - Switches between the three banks (classes) of radio station presets.

5 Tuner/component control buttons/SETUP

These button controls can be accessed after you have selected the corresponding input source button (**DVD**, **DVR1**, **TV**, etc.). Press **RECEIVER** first to access the following controls:

SETUP - Use to access the System Setup menu.

RETURN - Press to confirm and exit the current menu screen (also use to return to the previous menu with DVDs or to select closed captioning with DTV).

6 ⬅➡⬇⬆ (TUNE/ST) / ENTER

Use the arrow buttons when setting up your surround sound system. Also used to control DVD menus/options and for deck 1 of a double cassette deck player. Use the **TUNE** ⬆/⬇ buttons to find radio frequencies and use **ST** ⬅/➡ to find preset stations.

7 TV CONTROL buttons

These buttons are dedicated to control the TV assigned to the **TV CTRL** button. Thus if you only have one TV to hook up to this system assign it to the **TV CTRL** input source button. If you have two TVs, assign the main TV to the **TV CTRL** button.

TV ⏻ - Use to turn on/off the power of the TV.

TV VOL +/– - Use to adjust the volume on your TV.

INPUT SELECT - Use to select the TV input signal.

TV CH +/– - Use to select channels.

8 Component control buttons
The main buttons (►, ■, etc.) are used to control a component after you have selected it using the input source buttons.
The controls above these buttons can be accessed after you have selected the corresponding input source button (for example **DVD**, **DVR1** or **TV**). The following controls can be accessed when listening to the built-in tuner:

MPX - Switches between stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.
DISP - Switches between named station presets and radio frequencies. Also used to display RDS information.
EON - Use to search for programs that are broadcasting traffic or news information.

9 Receiver controls
THX - Press to select a Home THX listening mode.
STANDARD - Press for Standard decoding and to switch between the various Pro Logic IIx and Neo: 6 options.
ADV.SURR - Use to switch between the various surround modes.
STEREO - Switches between direct and stereo playback. Direct playback bypasses the tone controls and any other signal processing for the most accurate reproduction of a source.
AUTO SURR - Selects Auto Surround (Auto playback).
ACOUSTIC EQ - Press to select an Acoustic Calibration EQ setting.
SIGNAL SEL - Use to select an input signal.

10 MULTI OPE
Use this button to perform multi operations.

11 SHIFT
Press to access the controls outlined in white boxes (for example, **INPUT SELECT**), or to display the currently selected input source in the remote control LCD.

12 SOURCE
Press to turn on/off other components connected to the receiver.

13 Character display (LCD)
This display shows information when transmitting control signals.
The following commands are shown when you're setting the remote to control other components:

SETUP - Indicates the setup mode, from which you choose the options below.
PRESET - See Selecting preset codes directly.
LEARNING - See Programming signals from other remote controls.
MULTI OP - See Multi Operation and System Off.
SYS OFF - See Multi Operation and System Off.
DIRECT F - See Direct function.
RENAME - See Renaming input source names.
ERASE - See Erasing one of the remote control button settings.
RESET - See Resetting the remote control presets.
READ ID - See Confirming preset codes.

14 RECEIVER
Switches the remote to control the receiver (used to select the green commands above the number buttons (**ANALOG ATT**, etc). Also use this button to set up surround sound.

15 VOL +/–
Use to set the listening volume.

16 MUTE
Mutes the sound or restores the sound if it has been muted (adjusting the volume also restores the sound).

17 EFFECT/CH SEL
Press repeatedly to select a channel, then use **+**/**–** to adjust the level. Also adjusts the level of the Advanced Surround effects, Dolby Pro Logic IIx Music, and Neo: 6 Music parameters. You can then use the **+**/**–** buttons to make these adjustments.

■ Jigs list

Name	Jig No.	Remarks
11P board to board extension jig cable	GGD1482	Diagonosis
13P board to board extension jig cable	GGD1483	Diagonosis
15P board to board extension jig cable	GGD1484	Diagonosis
21P board to board extension jig cable	GGD1485	Diagonosis

■ CLEANING

Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008